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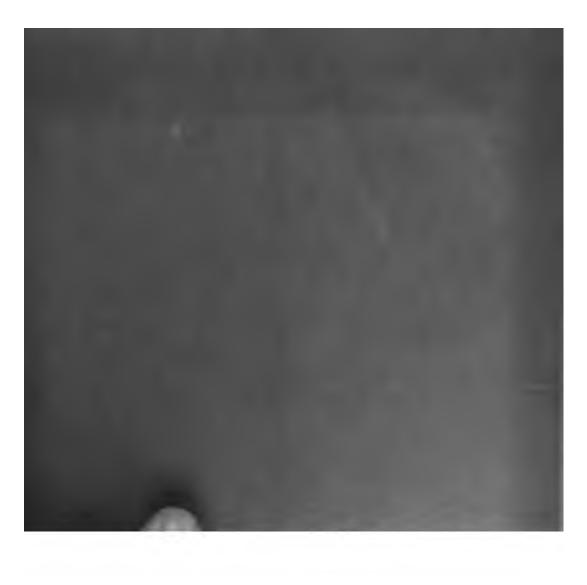
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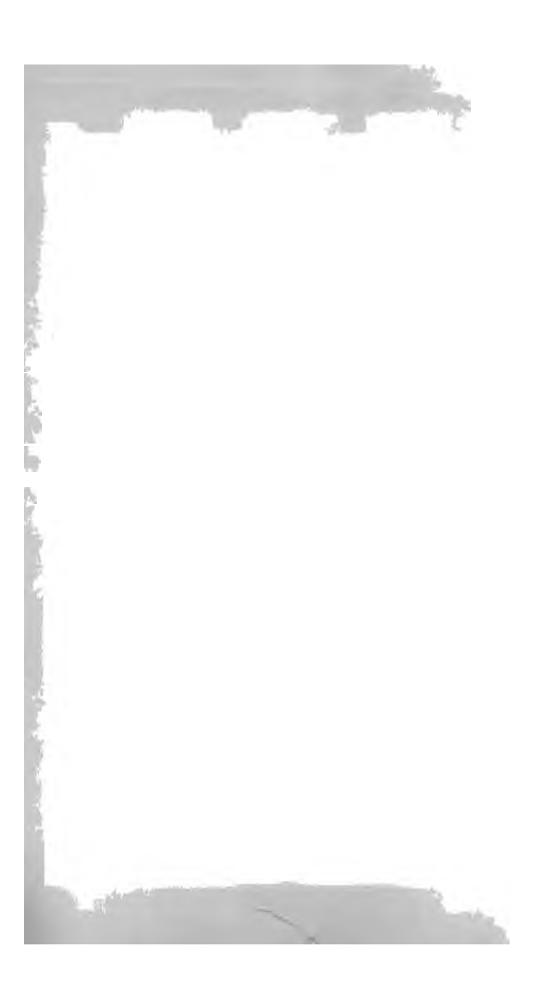
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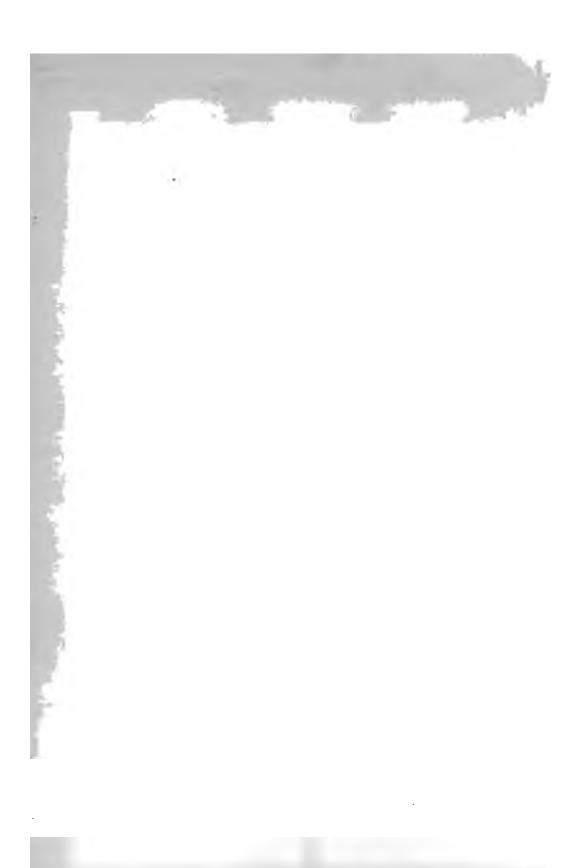








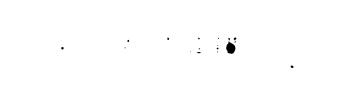




NEW

AMERICAN CYCLOPÆDIA.

VOL. II.
ARAKTSHEEFF-BEALE.



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THE NEW

AMERICAN CYCLOPÆDIA:

A

Popular Dictionary

OF

GENERAL KNOWLEDGE.

EDITED BY

GEORGE RIPLEY AND CHARLES A: DANA

VOLUME II.

ARAKTSHEEFF-BEALE.

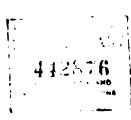
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NEW AMERICAN CYCLOPÆDIA.

ARAKTSHEEFF

ARAKTSHEEFF, COUNT, a Russian statesman, born in 1763, died April 21, 1834. His name is deeply interwoven with the history of his country in the present century. Descended from an insignificant and obscure family, he was from an insignificant and obscure family, he was educated in the military school of St. Petersburg. He entered the artillery, and in this branch of service reached the highest rank. He was one of the favorites of Paul I., and for a short time governor-general of St. Petersburg, but was dismissed on account of the insufferable harshness of his character. Paul made him commander of his favorite regiment of guards at Gatshina, an imperial residence in the environs of the capital. Suspicious of danger, and especially distrustful of Count Pahlen, Paul, the day before his murder, sent an order to Araktsheeff to march with his regiment instantly to the rescue of the emperor. The courier was detained by the conspirators, and Araktsheeff reached the barriers of the capital after the crime was accomplished. Alexander, the successor of Paul, kept Araktsheeff near Araktsheeft reached the barriers of the capital after the crime was accomplished. Alexander, the successor of Paul, kept Araktsheeff near his person. He was most influential with that emperor during his whole reign, and the only one who remained unshaken in his master's favor. Araktsheeff was active, energetic, but hard, and filled with the utmost contempt toward mankind. The military colonies introduced into Passia under Alexander were creduced into Russia under Alexander, were created and organized by Araktsheëff, amid bloodshed and cruelties, and the curses and tears of the Russian people. During the last years of Alexander's reign, Araktsheëff was created a count, and became virtual ruler of the empire. He had in his possession blanks with the imperial signature, and was thus enabled to issue laws and ukases. On Alexander's death he returned these blanks to Nicholas, who sent him in exchange, as relies, a coat and trowsers of the deceased emperor. Soon after, Arakt-sheeff was ordered to confine his residence to sheeft was ordered to confine his residence to his estates at Gruzina, in the government of Novgorod, where he died the blackest misanthrope. He left his large fortune to a military school founded by him in Gruzina. By one of the clauses of his will he ordered the sum of \$20,000 to be deposited in the bank of

<u>ARAM</u>

St. Petersburg, to serve, with the accumulated interest, as a prize for the best history of the reign of Alexander, 100 years after his death. It is supposed that this part of the will was annulled by the emperor Nicholas.

ARAL, a large inland sea of independent Tartary, between lat. 40° 20′ and 47° 0′ N. and long. 57° 25′ and 61° 0′ E. It lies between the steppes of Kirgheez and Khiva. Its elevation is, according to Humboldt, the same as that of the Caspian, of which sea he supposes it to have been a part. From the east, the rivers Sihon, or Jaxartes, Kuwandaria, and Jandaria, flow into it. As these rivers do not furnish a supply of water equal to the amount which evaporates, it. As these rivers do not furnish a supply of water equal to the amount which evaporates, the lake is thought to be lessening. The Aral is supposed to be very shallow. It abounds in fish. The water is brackish, but is freely drunk by horses, and is used for culinary purposes. Humboldt supposes the Aral to have been an enlargement of the Oxus, now its principal tributary, but formerly a tributary of the Caspian. The Aral covers a larger area than any other inland sea in the eastern hemisphere.

The Aral covers a larger area than any other inland sea in the eastern hemisphere.

ARAM, EUGENE, an English scholar, born in 1704 at Ramsgill, in Yorkshire, tried for murder at York, Aug. 3, 1759, found guilty, and executed within 8 days after the trial. The name of his victim was Daniel Clark, a shoether of Francher and the motive of the name of his victim was Daniel Clark, a shoe-maker of Knaresborough, and the motive of the murder was said to have been plunder. This trial created as great a sensation in Old England, as the trial of Dr. Webster created in New England. Eugene Aram enjoyed a remarkable reputation for extensive scholarship, acquired under the greatest difficulties, his father having been a poor gardener, and no advantages of study and education having been afforded to study and education having been afforded to him but those which he secured for himself by his indefatigable industry, and unswerving per-severance. After his marriage, he established himself as a schoolmaster in his native district of Netherdale. In 1734 he removed his school to Knaresborough, where he remained till 1745, when he became implicated in a robbery committed by Clark, and although discharged for want of evidence, he thought it best to leave the little place, and proceeded to London,

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Spain. He inaugurated a new municipal sys-tem, established schools, provided Madrid with a permanent garrison, strengthened the army and navy, gave a vigorous impetus to the flagging industrial and agricultural interests of the kingdom, and reformed the financial condition of the bank of San Carlos. The wildernesses of the Sierra Morena, infested by wild beasts and brigands, were thrown open to civilization by laborious German, French, and ization by laborious German, French, and Swiss settlers, who took up their abode there in obedience to Aranda's invitation. The muchobedience to Aranda's invitation. The muchabused right of asylum was limited to two churches in the capital of every province. He abolished the religious plays, which, on holy week festivals, generally gave rise to riots. In the ecclesiastical court, he substituted native for papal magistrates. At the same time he established a law which made the sanction of the council of Castile requisite for the validity of the decrees of the Vatican. He went even so far as to lift up his voice against the inquisition and as to lift up his voice against the inquisition, and established a political censorship in order to neutralize its influence. By a decree of April 2, 1767, the Jesuits were expelled from Spain, and their property confiscated. But the hostility of the clerical party soon rendered Aranda's position well-nigh intolerable. Moreover, his confidential correspondence with Voltaire, who, in 1771 had written a strong letter urging him 1771, had written a strong letter urging him to persevere in his work of reform, was dis-covered and published. In order to avoid a covered and published. In order to avoid a fatal overthrow, he tendered, in 1778, his resignation as prime minister and accepted the post of ambassador at Paris. Here he became noted for his opposition to England. This had always been the leading feature of his foreign policy, and during the American war, which then absorbed the attention of the European cabinets, he found the long wished for opportunity of giving a deadly blow to British power by prevailing upon Charles III. to join France in supporting the cause of America. In 1783 he had the satisfaction of putting his signature to the treaty of Paris, which recognized the to the treaty of Paris, which recognized the independence of the United States. In 1787 he returned to Spain, but kept aloof from public affairs until 1792, when he was invited to reassume his former position of prime minister as successor of Florida Blanca. But his old master, Charles III., was no more, and under Charles IV. there was little room for a statesman like Aranda. He was met by a camarilla, headed by a worthless queen, bent on his ruin; and after a few months of vain struggles he was forced to surrender the place to the queen's favorite, Godoy. Nominally he remained president of the council, but for all practical pur-poses his power was at an end. Finally, on oc-casion of the war with France, he expressed himself against its justice, and this remark was eagerly seized upon as a pretext to send him into exile in Aragon, where he passed the re-

mainder of his life.

ARANJUEZ, a small town in the province of Toledo in Spain, about 26 miles from Madrid.

It is the site of a royal palace of great beauty, whose groves and avenues are the favorite re-treat of the monarchs of Spain during the spring months of the year. Philip II. founded it, and it was enlarged and beautified by subsequent monarchs. The residence during the summer is not considered healthy on account of the vapors arising from undrained land in the vicinity. The present queen is particularly partial to Araniuez

ARANY, JANOS one of the most distinguished Hungarian poets of modern times, born 1819, in Nagy-Szalonta, in the county of Bihar. He is the son of a poor Protestant cultivator of the soil, who educated him for the church. In 1832 he went to the college at Debreczin. He afterward joined a troop of strolling players, and gained some knowledge of the world and of life in this precarious manner. He then returned to Szalonta and supported himself in his native village as a Latin teacher. In 1848 the Kisfaludy society offered a prize for the his native village as a Latin teacher. In 1848 the Kisfaludy society offered a prize for the best popular epic. Arany sent in anonymously his first poem, Az eleesett alkotmany (the Lost Constitution), which won the prize. In 1847 he sent in to the same society, and under the same anonymous guise, the first part of a trilogy (Toldi). The society gave to the author more than the stipulated price, and had it printed at their expense. By the patriotic spirit of his writings, Arany became the darling of young Hungary, and obtained popularity even with the working classes. In Feb. 1848, appeared his Murany Ostroma (the Conquest of Murany), which did not excite much attention, in consequence of the Hungarian revolution. The national ministry of Szemere employed him as draughtsman, but he was not prosecuted by the quence of the Hungarian revolution. The national ministry of Szemere employed him as draughtsman, but he was not prosecuted by the Austrian government on the defeat of the patriots. Since then he has published a narrative poem, Catiline (Pesth, 1850), beside many smaller pieces scattered about in the periodical literature of the day. Toldi, and the "Conquest of Murany," have been translated from the Magyar into German, by Kertheny, Leips. 1851. ARARAT, a celebrated mountain of western Asia subdivided into 2 peaks Great Argest on

Asia, subdivided into 2 peaks, Great Ararat on the N. W. and Little Ararat on the S. E., whose bases blend, while their summits are nearly 7 miles apart. The summit of Great Ararat lies in lat. 39° 42′ N., long. 43° 38′ E., and is 17,323 feet above the sea level, and 14,320 feet above its base. At a point 3 miles below its apart, it is constantly covered with summit downward it is constantly covered with snow and ice. Little Ararat rises 13,093 feet above the sea level, and 10,140 feet above the plain on which it stands, and is free from snow and ice in September and October. The 2 mountains are of volcanic character, an erup-July, 1840. The apex of Great Ararat was visited on Oct. 9, 1829. Ararat is the central point of the dividing lines of the division of Armenia, between Russia, Turkey, and Persia.

ARARAT, or Pilot Mountain, a mountain of North Carolina, in Surrey county, between

the American I Dan rivers. It is of a pyramidal transaction to river a male in height; and us to pass a place are so real extent or which is a grant track to the first in height. This secretary sectors a large distriction everys bound as a first policy let us was larges of the large.

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has been much condemned. Plutarch argues that Aratus should rather have ceded to Cleomenes' demands, because Cleomenes was one of the Heraclidas and a true-blooded Hellen, which the Macedonian was not. The Ætolian barbarians afterward defeated Aratus, and great complaints were made at the Achæan congress about his imbecility. Antigonus Doson, on his death-bed, conjured Philip, his successor, above all things to be guided by the long experience of Aratus. Indeed, Philip's affairs prospered in his hands. The Macedonian courtiers, however, did not like the Greek counsellor, but reviled and abused him at table, and once threw stones at him as he was retiring to his tent. Philip gradually became alienated from Aratus, and at length removed him with a slow poison. Aratus was conscious of the cruel deed, and bore it patiently, simply saying, "Such, Cephalon, are the fruits of royal friendship." He died at Ægium, after he had been 17 times general of the Achæans, but at the desire of the Sicyonians he was buried in their city. There they were wont to offer 2 yearly sacrifices, one on the anniversary of the deliverance of the city from Nicocles, the other on his birthday. Plutarch says that in his day some traces of the ceremonies still remained, though they had been mostly worn away by time and other circumstances.

ARAUCANIANS, the name given to a South have maintained their independence of Soain

have maintained their independence of Spain and the republics of Spanish origin which enand the republics of Spanish origin which environ them. They inhabit the country comprised between lat. 36° 44′ and 39° 50′ S. and long. 70° and 74° 80′ W., and bounded E. by the great Cordillera of the Andes, W. by the Pacific ocean, N. by the river Biobio, and S. by the Callacalla. Their territory thus extends 186 miles along the coast, its breadth, from the sea to the crest of the Andes, being, perhaps, about 150 miles. The name Araucanian is derived from the Indian word auca, meaning frank, or free. The productions of the country are similar to those of the republic of Chili, which the Araucanians live in close alliance.

As decidedly the most successful and largest
example of Indian self-government in the presence of the European races, the Araucanians, their history, and their manners, are matters of considerable interest to the philosopher and the ethnologist. The chief authority with regard to them is "Molina's History of Chili," composed in Italian and translated into Spanish by Mendoza. Six different poems have been written by Europeans upon their patriotic struggles against the European invaders. The best is the Araucana of Alonzo de Ercilla, a Spanish knight of the 16th century, who took part in the wars he describes. The Araucanians were first invaded by the Spaniards in 1537. divia founded many settlements in their country, which were destroyed in 1602. A pious Jesuit missionary impressed upon the Spanish government the advantage of living at peace with these tribes, but a quarrel about a Spanish

lady and some Araucanian converts to Chris tianity broke up the negotiations. In 1641, the marquis de Baydes made a treaty with their chief, but in 1665 war commenced again, and lasted at intervals until 1773, when Spain at length acknowledged the independence of the Araucanians, and allowed them to maintain an embassy at Santiago de Chili. Since this period, the Araucanians have made good progress in the arts of peace. In the contest between the mother country and the Chilian colonists, they preserved a strict neutrality. Schmidtmeyer visited them in 1820, and published his "Travels into Chili, over the Andes," in 1820— '21; the latest work on the subject is the very instructive book of Mr. Edward Reuel Smith, of the U. S. astronomical expedition in Chili. "The Arancanians: or Notes of a Tone Chili, "The Arancanians; or, Notes of a Tour among the Indian Tribes of Southern Chili," New York, 1855. Their polygamy and marriage ceremonies, their mode of dress, their funeral rites, their calendar, their cultivation of oratory, poetry, and medicine, their civil and criminal common law, their languages, and their habitations, are so similar to those of other Indian tribes, and, in many respects, to those of savage tribes, and, in many respects, to those of savage life the world over, that we pass them by without special notice. Their political condition, on the other hand, is peculiar, as are also, to some extent, their religious ideas, which are largely colored by their political institutions. The territory of Arauco has been from time immemorial divided into 4 cuthannapus or uthalmapus, or provinces, each presided over by a magistrate called a toqui; these 4 provinces correspond to the natural divisions of the country, viz., the maritime province, the plain province, the province at the foot of the Andes, and the province in the Andes. Each of these is divided into 5 illarchues, which we will call counties. In each county is an apo-ulmene, who, under the toqui, presides over the county; each county is further subdivided into 9 rehues or townships, over each of which presides an ul-mene, or head of a clan. The symbol of a toqui mene, or head of a clan. The symbol of a loqui-is an axe of porphyry or marble; of an apo-ul-mene, a staff with a silver head and a silver ring round the middle; of an ulmene, the same without the silver ring round the middle. All of these dignities are hereditary according to primogeniture. No regular tribute or any pre-dict service is payable by the clan to the ultrandial service is payable by the clan to the ulmene, by the ulmenes to the apo-ulmene, or by the apo-ulmenes to the toqui. Every magistrate must support himself out of his demesne lands. In time of war, however, military service is ac-knowledged as the most sacred of duties. Then, the general subordination from the grand toquis to the simple clansman, is brought to light. This brings us to the central government. The 4 toquis, or governors of provinces, form the grand council of the rancanian federation. This grand course presided over by one of its own mem' the grand toqui. This council decides on war and peace, conducts the forcing relations and peace are relations. foreign relations, and, on emergencies, calls

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ARAURE, a city of Venezuela, pleasantly situated on the Acaugua, a branch of the Porsituated on the Acaugua, a branch of the Portuguesa, in the province of Apure, about 60 miles N. N. E. of Truxillo, N. lat. 9° 17′ W. long. 69° 28′. It was originally founded by the Capuchins. It is laid out with great regularity, and its houses are well built. It has a fine plaza, and a good church. The district, of which it is the capital, produces considerable quantities of cotton and coffee, and raises large herds of cattle. Population, 10,000.

ARAVULLI, or Aravall, a mountain range of northern India, territory of Ajmeer, which extends from lat. 24° N., from S. S. W. to N. N. E. for about 800 miles. Its breadth varies from 60 miles to 6 miles. The average height of the range is about 8,000 feet; the highest

of the range is about 8,000 feet; the highest

summits do not exceed an elevation of 5,000 feet.

ARBACES, the founder of the Median empire, according to Ctesias. This author asserts ARBACES, the founder of the Median empire, according to Ctesias. This author asserts that Arbaces captured Nineveh, and overthrew the empire of Sardanapalus in the year B. C. 876, that he reigned 28 years over the Medes, and that his dynasty numbered eight kings.

ARBALAST (Fr. arbalète, arbalètrier, a crossbow). This weapon does not appear to have been known to the ancients in a routable

have been known to the ancients in a portable have been known to the ancients in a portable form, although it was used on a great scale to supply the place of ordnance. Contrary to received opinion, the crossbow was originally a Saxon, as the longbow was a Roman weapon; and both were used at Hastings, adversely, by the two nations. The principle of the crossbow is that of a perpendicular barrel, or groove, in which the missile is placed, with a transverse bow, the cord of which sweeps the barrel and discharges the bullet or bolt. The ancient bow was made of steel the cord of strong catgut. was made of steel, the cord of strong catgut, and such was the force required to bend it, that it could only be done by placing the bow under the two feet, one on each side the barrel, and drawing the string into the catch, which held it at its tension, by the full exertion of both hands with the aid of a steel winch, as is shown in the ancient illuminations of Froissart. The arrow discharged from the crossbow was called a quarrel, from its four-angled iron head; as that of the longbow was the shaft. A smaller missile, used for shooting on the wing before the invention of guinery, was known as the bird bolt. Hence the old tavern sign of the bolt in tun, the arrow in the mark. The heat grosshow men of the middle ages were the best crossbow men of the middle ages were the Genoese and Picards; it never was an English Genoese and Picards; it never was an English weapon, nor could ever compete with the long-bow. A very large crossbow, called a trebuchet, was used in the defence of walled places by the Normans, casting huge beams shod with iron.

ARBELA, now Arbill or Erbill, a small village in Koordistan, which lies on the usual route between Bagdad and Mosul in 36° 11' N. lat.

according to Niebuhr's observations. The houses are built of sun-dried bricks. Arbela was the name of the third and last of the great battles fought between Alexander and Darius 331 B. C. The battle was not actually fought

at Arbela, but at a little place 36 miles west by north, called Gaugamela, now Karmeles. After the battle Alexander crossed the Lycus and rested at Arbela.

ARBITER, a Roman umpire. The agreement by which parties bound themselves to refer matters in difference to an arbiter, was called compromissum. Cicero says that the difference between a regular suit (judicium) and an arbi-tration (arbitrium), was that the former dealt with cases where a liquidated or definite amount was demanded (pecunia certa), and the decision was either aye or no; whereas the arbitration dealt with cases of uncertain or unliquidated amounts,

ARBITRATION, is the submission of civil questions to the judgment of a private indi-vidual, instead of to the regular judicial au-thorities. Crimes can never be the subject of a legal arbitration, because society is interested in the prosecution of criminals to the end, and in the most thorough investigation of offences in the most thorough investigation of offences against law and order. Arbitrators are frequently preferred to the regular courts in every civilized country, because the process is generally freer, the forms are, or should be, less expensive and simpler, and the delay less. The preliminary agreement under which the arbitrator acts, which defines his powers and position and the subject matter in dignate is called trator acts, which defines his powers and posi-tion, and the subject matter in dispute, is called the submission, and the judgment of the arbi-trator is called the award. In many countries the award of an arbitrator is clothed with judicial authority, and, by the observance of cer-tain formalities, can be enforced as a judgment of a regular court of law. In countries where such powers are not granted to an award, the only remedy that lies against the recalcitrant party is an action for breach of contract in that he refuses to obey what by the original submission he had agreed to abide by. Arbitrators are often empowered to order certain things to be done, and, in default, to do the things them-selves, and charge the expense to one or both of the parties. In mercantile and industrial of the parties. In mercantile and industrial contracts a clause is often inserted that differences arising under them shall be referred to an arbitrator, or to two arbitrators, who, in case of disagreement, shall choose an umpire, who shall make the final award. As civilization advances, this system of settling disputes comes more and more into favor. In Athens arbitrators were called διαιτηται. The Justinian code devotes much space to this subject, and has been the basis of all the law concerning arbitration ever since. By an act of the legislature of Pennsylvania, June 18, 1836, arbitrature tions are made compulsory in that state. Either party to a civil action may insist on referring the suit to arbitrators. If the parties cannot agree, the prothonotary draws up a list of citizens, and the parties alternately strike each one of the list, until only the number agreed upon by the prothonotary is left; these are to be the arbitrators; their award is subject, however, to appeal. ever, to appeal.

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At carea The same of ventrale and my and physiology teach the following facts: 1. No tree can be perfected unless it have a good mechanical development of root, stem, branches, and leaves, early in life. 2. To produce these, the seed containing the tree in embryo must be derived from a healthy parent; the soil in which the seed is planted must contain the elements essential to the young tree, in a state fit for appropriation. 8. Soils varying in their physical or mechanical conditions, as to fineness of texture, porosity, aridity, and huto fineness of texture, porosity, aridity, and humidity, are adapted to various kinds of trees. 4. Man may vary these conditions so as to improve or injure trees for productiveness. 5. Certain portions or organs of a tree may be developed by pinching off shoots and buds, cutting back leaders and side branches.—Soils in the investment of the product trees adopted to their natural state produce trees adapted to their peculiarity of constitution. Thus, we have the wild crab, plum, peach, orange, and other kinds of trees, inhabiting localities where the soil and climate are exactly adapted to their wants. The cultivated varieties of fruit so acceptable to man, all sprang from wild ones. Some kinds of fruits growing wild are not benefited by culture, while the simple removal of others from uncultivated to tilled lands will cause a radical improvement. Seeds of wild others from uncultivated to tilled lands will cause a radical improvement. Seeds of wild trees, sown in rich soils, in good condition mechanically, will produce trees of an improved character, bearing fruit which yields a larger quantity of pulp than the wild tree, and generally of a better quality. The seeds of these, when sown under the most favorable conditions, will yield still finer fruit, until a certain point of excellence is attained, when the central energy of the tree being expended, it gradually returns to its original wild condition. When a good variety of fruit is obtained by culture, or by accidental discovery, it is multiplied indefinitely by the processes of grafting, layering, and budding. In this way have all our choice fruits been obtained, and finally perfected. The laws which have been unfolded by the sciences of vegetable physiology and anatomy, together with the established truths of improved culture, point to vast changes yet to be wrought in fruit production for man's benefit. By thorough attention to the selection of the best varieties of trees, and their culture, the product of an acre may be readily doubled, and even quadrupled.—In the practice of arboriculture, it should be remembered that the and even quadrupled.—In the practice of arboriculture, it should be remembered that the conditions which produced a given variety of fruit in its present perfection must be again established, to reproduce or continue it. Especial directions for tree-culture are given under the name of each kind of tree. The general principles, only, of arboriculture are as follows: 1. Situation. This should be selected with ref-erence to the kind of tree, its uses and habits. All trees liable to suffer from sudden frosts should be placed in cold exposures, so that the buds may remain dormant as late in the spring as is consistent with complete wood growth in early autumn. Fruit trees

should be little exposed to heavy blasts of wind, although a free circulation of air is to be desired.—II. Soil. For fruit trees, and for all other trees, except those of the pine and fir tribe, deep, rich loams, containing a fair share of lime, are preferred. Light sands, hungry gravels, and wet marsh lands, are alike unjudy to the development of head wood forsuited to the development of hard wood, for-est, and fruit trees. Calcareous loam soils are preferred for the apple, while the pear and plum delight in heavier clays. The quince and pear will bear moist soils, while the peach may be grown on light soils, though its highest development and greatest duration are only reached on strong loams. The pine and fir tribe grow well on poor, sandy, and gravelly lands, with shallow surface-soil.—III. Proparation of soil. shallow surface-soil.—III. Preparation of soil. For all trees, except those naturally growing on swamps, the soil should be freed from excessive supplies of water. It should be either naturally porous enough to allow falling water to filter rapidly through, and pass beyond the reach of tree roots, or be made so by thorough drainage. Water retained in the soil, preventing the plant from procuring its food, becomes sour, excludes the atmosphere, and otherwise obstructs plant growth. (See Drainage.) It is true, under drains will be clogged with roots so soon as the trees growing above them attain so soon as the trees growing above them attain any considerable size; but drainage and general porosity of soil will have become so thoroughly established before this period as seldom to require additional draining in after years. ough subsoiling will sometimes open cuts down to a porous subsoil, and thus establish good drainage without the absolute necessity of make ing regular drains. Open surface ditches will not suffice for lands planted to fruit trees, though they may answer for forests. Before planting out trees the soil should be thoroughly planting out trees the soil should be thoroughly pulverized with the surface and subsoil ploughs. No hard pan should be allowed to exist within the usual range of tree roots.—Merely digging large holes will not fully answer, as the roots in extending meet with a compact mass of earth and become checked, producing more or less serious injury to the tree. The highest degree of perfection in the physical preparation of the soil can only be obtained by deep trenching. soil can only be obtained by deep trenching. This is pursued extensively in Europe, where labor is cheap, and with us for grape vines labor is cheap, and with us for grape vines and small fruit.—IV. Manuring. A soil deficient in materials required by growing trees, cannot support them unless the missing elements of their composition be added. As a general rule, to employ lands not well suited for the kind of tree to be planted, will prove too expensive for profit; hence soils are usually selected which require but partial manuring. If the soil be newly broken, or rather cold in its nature, half decomposed barn-yard manure or composts of muck and manure, may be added in the autumn previous to ploughing the soil. By turning these deeply under, the soil will become improved by their decay. In no in-stance should long manures be brought in conthe way there is a the gases eliminated by the consists a will proceed secondarizable at the constant way will proceed the constant of the con that with tree roots. The gases eliminated by decembers to a will prove the concentrated, and these destroys the december regulate with which

so thorough culture, slace they are less removed from a wild state.

been originally destined. In 1085, upon his appointment as vicar-general of the bishop of Rennes, he began to introduce some very sweeping reforms among the clergy and people of the diocese, which brought him into such bad odor, that upon the death of his superior in 1089, he was fain to retire to Angers, and give instruc-tions in theology. At the expiration of 2 years, disgusted with the world, he retired into the forest of Craou, on the frontiers of Anjou and Brittany, where he lived as a hermit, devoting Brittany, where he lived as a hermit, devoting himself to severe penances for his spiritual benefit. His example was contagious, and the neighboring forests of Anjou, Normandy, and Brittany, were soon filled with anchorets, who subsequently became members of the celebrated order of Fontevrault. Finding himself surrounded by so large a number of disciples, Arbrissel founded, in 1096, the abbey of La Roe, of which he became the first prior, but soon relinquished this peaceful life to travel barefooted through the country, preaching repentance and penance to the people. He soon had several thousand followers of both sexes, for whose accommodation he built a number of for whose accommodation he built a number of abbeys, the most celebrated of which is that of Fontevrault, near Poitiers, established about the year 1100. The remainder of his life was spent in similar occupations. He is said to have

argone the most extraordinary trials, to enable himself to resist any possible temptation.

ARBUCKLE, James, a Scottish poet who lived in the first half of the 18th century. He published at Edinburgh a poem called "Snuff;" in London, a "Letter to the Earl of Addington on the Death of Joseph Addison;" "Glotta," a poem dedicated to the marchioness of Caragraph by a student of the university of Glesser. narvon, by a student of the university of Glasgow; "Hibernic Letters," London, 1729, and some fugitive verses in the "Edinburgh Miscel-

ARBUCKLE, MATTHEW, brevet brigadier-general in the United States army, was born in Greenbrier co., Va., about 1775, and died June 11, 1851. He at different times commanded at New Orleans, Fort Gibson, and Fort Smith, and was in several engagements during the war with Mexico. Much of his life was passed among the Indians, who placed implicit confidence in At the time of his death he commanded

the 7th army department.
ARBUTHNOT, ALEXANDER, a Scottish theologian, lawyer, historian, and poet, born in 1538, died 1588. He was the author of a "His-tory of Scotland," of too republican a tendency to be pleasing to Scottish royalty. While the to be pleasing to Scottish royalty. While the reformation was embroiling every public and private relation in Scotland, Arbuthnot wrote poetry. "The Praises of Women," and "The Miseries of a Poor Scholar," were the fruits of his contemplations in a most stormy period. In his youth, Alexander Arbuthnot studied jurisprudence in France; and in 1572 he published in Edinburgh his Orationes de origine et dionitate Juris.

ARBUTHNOT, JOHN, M. D., the son of a

Scotch Presbyterian clergyman, and one of the constellation of wits in the reign of Queen Anne, born in Kincardineshire, Scotland, about 1675, died in London, Feb. 27, 1785. He was educated at the university of Aberdeen, where he studied physic and took his doctor's degree. His father, by refusing to comply with the Presbyterian system introduced at the revolurresoyterian system introduced at the revolution, was deprived of his preferment, and young Arbuthnot therefore went to seek his fortune abroad. He repaired to London, where he supported himself for a while by teaching mathematics. He made his first literary venture in 1695 in a critical essay entitled an "Examination of Dr. Woodward's Account of the Deluge," in which he aimed to show that a universal deluge was inconsistent with philouniversal deluge was inconsistent with philosophical truth. This work excited much curiosisophical truth. This work excited much curiosity, and the reputation which it gave the author was considerably heightened in 1700 by his "Essay on the Usefulness of Mathematical Learning." He now began to practise as a physician, and quickly attained a high position in the profession, his witty conversation and agreeable manners often, it was said, being quite as serviceable as his prescriptions. In 1704 he contributed to the royal society a paper concerning the regularity of the birth of both sexes, in which he demonstrated the fact from authentic statistics, and deduced from it from authentic statistics, and deduced from it from authentic statistics, and deduced from it arguments against polygamy, and for the existence of divine providence. This paper procured his election into that body. In 1709 he was appointed the queen's physician in ordinary, and the next year was admitted a member of the royal college of physicians. During the ascendency of the tory party he held a lucrative and honorable position, and lived in constant intercourse with the chief literary men of the time, with Pope. Swift. Gav. Parnell. Grav. the time, with Pope, Swift, Gay, Parnell, Gray, and Prior, in which brilliant circle he was unequalled for learning and unsurpassed for wit. In 1712 he wrote the "History of John Bull," a political allegory, full of happy satirical allusions, and designed to ridicule the duke of Marlborough, and to render the war unpopular. It is the most durable morument of his fame, and one of the best humorous compositions in the English language. Some of its allusions which are difficult to understand at present have been admirably illustrated by Sir Walter Scott in his edition of Swift's Works. He formed in 1714, in conjunction with Swift and Pope, the plan of writing a satire on the abuse of human learning in every branch. The design was to be executed by the combined lasign was to be executed by the combined labors of this illustrious triumvirate, in the humorous manner of Cervantes, under the history of feigned adventures. "Polite letters," says Warburton, "never lost more than in the defeat of this scheme." It was frustrated by the death of Queen Anne, by which Arbuthnot, who had been her favorite physician, lost his place, and a serious blow was given to all the political friends of the associated wits. In the dejection which followed, and by reason of the

growing infraitles of Swift, the design was never carried former than an imported essay, written cheefs by Arbathrest, unfor the title of the "Erst Book of the Mercess of Martin is Scriber self." This fragment of settre, though Scribler (3.1). This frage out of satire, though sometimes directed against planetons of also surdiry, and fabilities rather than familiar fol-lies, is yet an original and in strainty performs ance. Dr. Arbeit not yes to I Pursoning hately ance. Dr. Arbert not vested Pures clobe flately after the death of the quest, and on his return changed has apartness from St. James's to Dever street, and continued his literary occupations in this practice of player. In 1717 he and Pope give assistance to Copy in a trace contitled a Three Hiers after Mariage, has both remarkable that the prishate most the relativities was even not the first ingit. The fallette is explained in part by the pooling character of Arbertha declination, with was severething too return last rare, cold to turn has sething too refer bland rare, and the true hassis-ciated with matters of hard not to be generally approach by In 1720 be was chosen second censor of the royal college of physicians, and in 1727 was made an elect of the others, and prote mood the Harvelan oration. In the same year also appeared his learned work, and the most valuable of this serie is performances, en-titled to Lucles of Analest Coins, Weights, and Mensures. The continued to discretches less are hours by writing homorous papers, one of the most remarkable and degrate by two howas an epitaph upon the infances Col Charters. In 1702 he control red to detecting and punishing the impositions and abuses carried on under the impositions at Labuses carried on under the species name of the Charitable Corporation, and shortly afterward published his essays concerning the what recard the less of Alments, and the white sof Almenth had the state of his own had dead orders led to his sole test of these types. He was living argrest deshity at Humpsterd additions to define in his fore his death to he for other His last had record work was accent standing and so clarks paper on the whaters atom or Solding of the Assisting of the Astronaution, or Solding of the Assisting and under product the present is freelight for an him before that he retuned under product the present is freelight said of and in reliable to rewat can we all have, and in reliable to rewat can we all have, and in reliable to a value of a like the sold of the waste his trace and his accordances. His actions of which had the sold as poke and it we make the tast the product of the sold of the reliable that they are it to sold the sold take in a ref them had the control them to the sold the sold that the sold in the sold that the sold of the reliable that they are it to sold state of the refine that they are it to sold state of the refine that the many stands to the refine the miles of the base for the law and we always formed to the law refine the medical and serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined with the sold serious class of the law refined the sold serious class of the law refined the sold serious class of the law refined the species name of the "Charitable Corporaw .:

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remarkable species of this genus, is the arturus berry tree." the berries of which bear a storing resent lance to the common strawierry. It is a matrixe of the south of Europe and the Lea miles of the south of Europe and the Levant. In northern Europe it is a harly correct, sanotines aftering to a larget of 20 test, bearing greensh yellow blossess in the first bornal Necestalism, and length yellow and red borns in Necestalism, and the following in a first At the like of Killing yin Ireland, there are braidful groves of this species of arbitrary which give a charming aspect to the country. Its borness are landly catalder and, if outer free years appropriate years as the property of from them. Its bark and leaves are astringed. them. Its bark and leaves are astringed. The oriental arbitrus, or their backets as a total of the Levant, and has similar mare one goal test. It is superfor in beauty, but much less harry in cold dimates, rot bearing fruit in northern In each of mates, rot to aring front or northern Europe. Its leaves are broader and less some rated; its back peels off so as to leave the stem always smooth, and of a char brights intain in brown colon. The male arbitistic or A. Pylogha, apparently a cross between these two, his great leastly of foliage, and in moderately cell regions, grows well, but does not lear recries in northern Europe. A, process is not every Children a, cultis ded as an ormatic the every

California, will to deel as an ordanic the evergreen in the guidens of Great British.

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but desert and prospective. The true of thereby well the name is Dane. She was to bthe rule, in the war to the reduce of a father, received to electricity, but was no 1 Star Was Liver to med to out of the relation, such as the territing

of sheep and the riding of horses to and from the watering-place. The neighborhood of Domremy abounded in superstitions, and at the same time sympathized with the Orleans party in the divisions which rent the kingdom of France. Jeanne shared both in the political France. Jeanne shared both in the political excitement and the religious enthusiasm; imaginative and devout, she loved to meditate on the legends of the Virgin, and especially, it seems, dwelt upon a current prophecy that a virgin should relieve France of her enemies. At the age of 18 she began to believe herself the subject of supernatural visitations, spoke of voices that she heard and visions that she saw; and, at 18, was possessed by the idea that she was called to deliver her country and crown her king. An outrage upon her native village by some roving Burgundians raised this village by some roving Burgundians raised this village by some roving Burgundians raised this belief to a purpose; her "voices" importuned her to enter upon her mission by applying to Bandricourt, governor of Vaucouleurs; and this, by the aid of an uncle, she did in May 1428. The governor, after some delay, granted her an andience, but treated her pretensions with such scorn that she returned to her uncle. The fortunes of the dauphin, however, were desperate, and Baudricourt, pressed by her en-treaties, sent her to Chinon, where Charles held his court. Introduced into a crowd of courtiers from whom the king was undistinguished, she is said to have singled him out at once. Her claims were submitted to a severe scrutiny. She was handed over to an ecclesiastical comshe was named over to an ecclesiastical commission; she was sent to Poitiers for examination by the several faculties in the famous university there. No evidence indicating that she was a dealer in the black art, and the fact of her virginity removing all suspicions of her being under satanic influence, her wish to lead the army of her king was granted. A suit of was made for her, a consecrated sword which she described as buried in the church of St. Catharine at Fierbois, and which she per-haps had seen while visiting among the ecclesi-astics there, was brought and placed in her hands. Thus equipped, she put herself at the hands. Inus equipped, she put herself at the head of 10,000 troops under the generalship of Dunois, threw herself upon the English who were besieging Orleans, routed them, and in a week forced them to raise the siege. Other exploits followed. The presence of the virgin with her consecrated banner struck a panic into the souls of her enemies. In 8 months In 8 months Charles was crowned king at Rheims, the maid of Orleans standing in full armor at his side. Her promised work was done. Dunois, how-Her promised work was done. Dunois, however, unwilling to lose her influence, urged her to remain with the army, and she did so; but her victories were over. In an attack on Paris in the early winter (1429) she was repulsed and wounded. In the spring of the next year she threw herself into Compiègne, then beleaguered by the English; made a sortie in which she was taken prisoner (May 23, 1480), and was at once carried to the duc de Luxembourg's fortress at Beaurevoir. An attempt to escape fortress at Beaurevoir. An attempt to escape Vol. II.—2

by leaping from a dungeon wall was unsuccess ful, and she was taken to Rouen. The univer-sity of Paris demanded that she should be tried on a charge of sorcery, and solicited letters patent from the king of England, which were reluctantly granted. The chapter at Rouen were rather favorably disposed toward her. reluctantly granted. The chapter at Kouen were rather favorably disposed toward her. Many of the English in authority were unwilling to proceed to extremities. But the university at Paris prevailed; the examination lasted several months, and resulted in a conviction of sorcery. The papers were sent from Rouen to Paris, and the verdict of the university was unanimous that such acts and sentiments as hers were diabolical, and merited the punishment of fire. Sentence of condemnation was read to her publicly on a scaffold by the bishop of Beauvais, and the alternative offered of submission to the church, or, the stake. The terrified girl murmured a recantation, put her mark to a confession, and was taken back to prison. Here she heard her "voices" again; her visions returned. A man's apparel being left in her cell to tempt her, she put it on; the bishop of Beauvais seized upon the act as a virtual relapse into her old unbelief, and hastened the execution of the on uncerte, and hastened the execution of the first sentence. A huge pile of wood was erected in the market-place of Rouen, and, surrounded by a vast assembly of soldiers and ecclesiastics, Joan of Arc was burned on the last day of May, 1431. The Seine carried her ashes to the sea. The infamy of this transcription lies heavily upon all concerned in its page. tion lies heavily upon all concerned in it: upon tion lies heavily upon all concerned in it: upon the Burgundians who gave her up; upon the English who allowed her execution; upon the French who did the deed, and the French who would not prevent it, and upon the king who did nothing to avenge her—who waited 10 years before he reversed the process by which she was condemned, pronouncing her "a martyr to her religion, her country, and her king." The character of the "Maid of Orleans" was spotless. She was distinguished for her purity spotless. She was distinguished for her purity, innocence, and modesty. Her hand never shed blood. The gentle dignity of her bearing impressed all who knew her, and restrained the brutality of her soldiers. In 1855 M. Delepievre, in a little book, suggested doubts in regard to the fate of La Puelle, arguing that another person was burned in her stead.

change in the accepted record of history.

ARCADE, an aperture in a wall with an arched head. This term is also applied to a range of apertures with arched heads forming one of the most heautiful chieges attached to one of the most beautiful objects attached to the buildings of a city which architecture af-fords. The arches of arcades are generally supported upon square pillars, and are some-times employed instead of colonnades to form porticos, and though they are not so beautiful perhaps, they are stronger, more solid, and less expensive. In a range of arcades, the utmost care should be taken that the piers be suffi18 ARCADIA

ciently strong to resist the pressure of the arches, particularly the piers at the extremities, for they alone support the whole. The lateral pressure upon the extreme piers in the range will be equal to that on the piers of a single pressure upon the extreme piers in the range will be equal to that on the piers of a single areade, and all the intermediate piers will be without such lateral pressure; for the lateral pressures of any two adjoining arches upon the intermediate pier are equal, and being opposite they destroy each other selfect; but the extension of the lateral pressure is the extension of the site they destroy each other's effect; but the extreme pior having only one adjoining arch, must be sufficiently strong to withstand the horizontal throst of that arch. The greater the weight or vertical pressure put upon the extreme piers, the more will those piers be able to counter at the thrist of the adjoining arch, consequently if each extreme pier have to suport a wall, the higher the wall the less dumentions the mer repurses. It is much this new colors sions the partie pures. It is upon this principle that the slender pilars dividing the nave on either side from the aisle in churches of the Saxon and pointed styles of architecture, are capable of withstanding the horizontal thrusts the grous; for if the insisting wall were of the greens; for if the insisting wall were taken away, the pillars of most of these buildings would not be able to withstand the thrusts of the arches. Areades were employed in trium plad arches, theatres, amplitheatres, and apieda is, by the Romans, and frequently in the rate plas, toward the decline of the empire the inter-olumns were formed into arcades, they may be used with propriety in the gates of calles takens cardens and terks; they are pire the inter-clumns were formed into are also of cates, palaces, gardens, and parks; they are much employed in the plazas or squares of Rfl an effect and are of great use in affording shade and shelter in het and rany climates. There are various in this of decorating the plers of areades, as with rustics, columns, plasters, ciryatides, Persians, or terms surmeented with appropriate entablatures. Sometimes the piers are so broad as to admit of niches between the columns or polasters. In some its trees the arches of areades are supported entirely by south or coupled columns, without the cutablitize, as in the temple of Facilies, at Rome. This form is far from being factors of he to the even and it wants stability, as the columns would be respected of resisting the late the even and it wants stability as the columns would be respected for from being factors of the arches were they not to it spectrally a circular wall.

Also ADIA, on what he contral, and mountaineds country of the Polya research fits proven as it to con, however, played a part in the affirms of the con, however, played a part in the affirms of the above to the stress of the properties, or the above to a twenty of its properties, or the above to a twenty of its properties, or the above to a transfer fits properties, or the above to a transfer in the respect to the constraint to the return of the contraction of the respective fits properties, and to the column of the contract of the

recorded on the north east, and south by towerig chairs of result toughts, and inter-nally broken into numerous valleys, divided

by mountain ridges, on which the snow wont to lie, as on the upland plains of Man-tinea, and Tegea, when the violets were in bloom and the sunshine warm in the low comtry of Argos, scarce one day's journs y dis-tant. To the west, whither it trended as its water-shed, all its tributary streams from its highland gorges falling into the river A'; hous, it was of milder climate, and more trutt disch - Yet, for all this, Arcadia had its advantages of soil, of scenery, of clamate. Alone of Grosse, its mountains were not barren, its pastures bare and sun-burned, or its rivers dry, stony watercourses, in the summer time. Magnifectat, evergreen mountain sides, innumerable brooks, one more desightful than the other, pastures where the vegetation is never sere, cooliess, and shade, and moisture everywhere, abundant ver-dure, and never-failing springs for the flocks and herds, which constituted her greatest wealththese were her delights and riches, delights and riches of no small weight, in a parched and arid country, such as Greece is in her general aspect. Her people, who were of the bene-race, and that of the simplest and rudest form, adopted from the first, and maintained to the dist, a pasteral life, but a pasteral life wilely different from that misrepresented by the Daylo-nis and Chloe, Doris and Strephen, or the cocking poets, whose best idea of Layretts was Rachmond Hill, of Alpheus the New recer-tor the Manuscon wars in that internal ca-In the Messellan wars, in that intermediate time between the harde and historic ages, Arcadia scenis to have played a more conspictions part than she did at any subsequent period; she was at that time, like the rest of treece, monarchical in form of government, at, I with the rest became republican, and so continued until she was merged in the Roman empire -Mantinen, Tegen, and Orchomenus wlarge-testies of Arcadia, but it cannot be said that they were of non-hampertanes, except from their mutual strifes and dissensions, which injured the prosperity of the country more than their wealth, or energy, or enterprise advanced it. In many respects the Areadians closery re-sorbled the Swiss; in their love of independent mountain later in their love of freedom, in have of money; in their will agrees self their swords to foreign countries. Their country was never conquered. Their heavy armed infinitry was second to note in Greece. Hunters, herdsmen, and musicians, they served the god Pan in their mountains, and cared in t for the life of cities. The Areadan's were the Swiss gravity of the Asiatic desp tisms; and, where they had taken pay from the bar-barium they served him fulfitally to the last, even against their own countrymen, and died for him, as they did at the battle of Issue, where leavest increasuries of the Pelopotics is were slain in the army of Daries, by Alexander - In stan Price army of Parens, by A examor. The Persan, and Peleps intestan wars, the Arias duais, especially the Ference metol prin party with the Lacehenomasis. At Platex in the great final battle against Mardonius, the Areadians were above 2,000 strong, 1,500 from Tegea, and 600 from Orchomenus, who all did good service. In the celebrated expedition of the younger Cyrus against Artaxerxes, which led to Xenophon's retreat of the 10,000, there were 2,300 heavy Arcadian infantry, and many of the best officers were of that nation. In the social wars which followed, Arcadia was divided against herself, part with the Tegeans, who had fought in the Spartan contingent at Plates, taking side with the Argives and Acheans, while the Mantineans espoused the party of Lacedæmon. At the battle of Mantinea, where Epaminondas fell, but in falling beat down the pride of Sparta, never to rise again, the Arcadians fought on both sides, and on both suffered severely, though mostly on that of the Spartans, who were utterly defeated. After this, the Arcadians became confederates in the Achean league, and fell under the Roman power. Thenceforth they have no separate history from that of the empire, and of Greece of the middle ages, and of modern days.—Arcadia, though she produced some good soldiers, has left no name of note, worthy to be recorded. She has left nothing in arts, nothing in letters, to illustrate her records, and certainly seems more obnoxious to the charge of national dulness than Bosotia, which, at least, gave birth to Pindar and Epaminondas.

recorded. She has left nothing in arts, nothing in letters, to illustrate her records, and certainly seems more obnoxious to the charge of national dulness than Bosotia, which, at least, gave birth to Pindar and Epaminondas.

ARCADIUS, the first of the Byzantine emperors, born in Spain A. D. 383, died at Constantinople, May 1, 408, was the first son of Theodosius the Great, the last ruler of the whole Roman empire. In 395, a few months before his death, Theodosius divided the empire between his two sons, Arcadius and Honorius, giving to the former the eastern part, extending from the Adriatic on the west to the Tigris on the east, and from Scythia on the north to Ethiopia on the south. Arcadius ruled under the regency of Rufinus; but in the first year that individual was assassinated by the emissaries of Stilicon, who pretended to the regency of the empire. Eutropius, a cunuch, had become regent of Arcadius and held the place till 397, when Trigibildas, a Gothic chief, in Phrygia, revolted, and compelled Arcadius to put his favorite to death. Trigibildas and his tribe also obtained permission to pass the Bosphorus and settle on the European side; but their Arianism roused the ire of St. Chrysostom, who stirred up against them the people of Constantinople, by whom they were attacked and massacred, or driven out. Hereupou, the Empress Eudoxia, who had now acquired the absolute control over her husband, caused Chrysostom to be banished to Comana, where he died A. D. 407. Arcadius was a feeble man, but of severe religious orthodoxy.

ARCANI DISCIPLINA, the name given to

ARCANI DISCIPLINA, the name given to the practice of the early church of withdrawing from public view the sacraments and higher mysteries of the Christian service. The worship of the temple, as described in the Old Testament, was the model to which the early Christian assemblies, as far as they could, conformed their worship. In accordance with the spirit of the times, and perhaps also as a matter of necessity, the Lord's Supper was administered near the close of the 2d century as a Christian mystery, with the view of investing it with increased sanctity by its secrecy; and by this means a mysterious character was imparted to many of the usages and forms of the church. These secret usages did not receive, till after the reformation, the name of arcanidiciplina, and they then played an important part in controversy, the Roman Catholics referring to them to prove that certain dogmas and customs were possibly of apostolic origin, though their existence in the early ages of the church could not be historically shown

their existence in the early ages of the church could not be historically shown.

ARCANO, MAUBO or GIOVANNI, an Italian satirical poet, born in 1490, died in 1536. He came to Rome while a young man, and after serving in several noble families, became attached to the person of the cardinal Cesarini, with whom he remained a number of years, during which he accompanied him on his extensive travels. Arcano was a bold, vigorous, and successful writer. Unsparing in his satire, he ridiculed every folly of the age, but with a coarseness and license which his broad humor cannot always redeem. His style is altogether original, and although not ranked among the great poets, he was held in much esteem by his contemporaries. The Capitoli contain the greater part of his satirical poems.

original, and although not ranked among the great poets, he was held in much esteem by his contemporaries. The *Capitoli* contain the greater part of his satirical poems.

ARCANUM, a Latin word, meaning a secret, and applied principally to the operations of alchemists or druggists. Colloquially we speak of the arcana of a profession or trade as equivalent to its mysteries.

ARCE, MANUEL José, a Guatemalan general, who toward the end of 1824 succeeded Pedro Molina as president of the new republic of Central America. He was the first constitutional president, elected for 4 years with a salary of \$10,000, but not long after the convocation of the first congress, March 5, 1825, it became evident that the national rejoicings which greeted his advent were soon to give place to feelings of discontent. The first discordant element was introduced by the intrigues of the old Spanish, aristocratic, clerical party, to which the president belonged, and which, with the bishop of Leon as chief spokesman, protested against the act of the new congress that subjected the clergy and the other privileged classes to taxes, from which, under the rule of Spain, they had been exonerated. The labors of the congress of 1825 and 1826 were however brought to a successful close, the constitution of 1824 adopted, the country put into a position calculated to secure prosperity within and to protect it from attack from abroad, and spite of the political dissensions, the affairs of Central America proceeded smoothly enough until Sept. 6, 1826, when, at the bidding of the clergy, the president resorted to the arrest of Barrundia, governor of Guatemala, which

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ARCII

ARCH (Lat. areas, a low), a curved structure supported by its own curve. The length of an arch is much less than its width, as is the case with the arch forming the roof of a door or of a window. When such a structure is long. it is called a vault. However, the quantity of light admitted and of weight supported, either apparent or real, has an influence upon the name adopted. For example, we say the arch of a bridge, and a triumphal arch, because both are above ground and support nothing, and we see the light through and around them; while the same arches, if used for a tunnel in a deep trench, or for a passage between two collars, would be called vaults. Arches, vaults and domes were unknown to the Egyptians and the Greeks, the first arched monument on record being the chaca maxima built in the age of It consisted of a small dome su; the Tarquins. ported by a few pillars, under which stood the augurs; the object was to protect the priest against the sun and rain, and at the same time allow him to study the horizon and be seen by the people. The Romans scarcely deviated from the semicircle, which is the simplest form of the arch, and, in building it, did not follow true mechanical principles, so that the great strength of their numerous accidents, viadasts, and monuments is to be ascribed to their massiveness and to the good cement employed. was not till the middle ages that the arch was properly built and widely used. At that period, the Christians and the Saraceus vied with cach other in giving beauty to their temples, as their architects, under the double impulse of religious and of artistic ideas, made architecture a science. By means of the arch, these masters successfed in building structures of univalled beauty with materials which would have been beauty with materials which would have been rejected by the Roman architects as utterly worthless. They invented the pointed arch, shaped and ornamented it in a thousand ways, making it seem strong or airy according to its use and the effects of light. Strong abutments are generally found around the meanuments of that period, which consist of a succession of arches built, one above the other, from the ground to the top of the monument, the upperst one being used as an aqueduct for the roof gutters one tengused as an aqueture for the root guters, appearing, from below, as light as if made of tin plate. The roofs of many of these edifices are formed of large arches as main ribs, which sustain smaller arches abutting on them; they are as alender as possible, and so appropriately

created much excitement all over the country, especially in the province of Quesaltenango, where the population rose to arms in October. This insurrection, although it was promptly quelled by the president, became the forerunner of similar popular movements in Honduras and Nicaragua. There the people revolted against the authority of Arce and declared their independence. In order to devise measures for the purpose of allaying the crisis, an extra session was convoked by the president in Nov., but party spirit ran higher than ever, and the politicians, availing themselves of the general excitement, frustrated all attempts of the excentive to restore peace to the distracted country, and the congress broke up in the greatest confusion. This became the signal for civil war, which in 1827 raged with great violence between the provinces of San Salvador and Guatermala, and the president, who commanded in person the army against the rebels, was repeatedly defeated at Apopa and Santa Anna. A truce was at length agreed upon in Jan. 1829, but a new and powerful champion of the denocratic party who had arisen in the person of General Francisco Morazia, rekindled the revoslutionary spirit of the Central American liberals, broke the truce, took possession of the capital, Guatemala, on April 13, and after securing the person and the property of the president, the vice president, Mariano Petronena, the members of the cabinet, the principal prelates, and of about 80 more leading individuals of the same party, nonmated Barrundia as provisional president, and subsequently assumed the reins of power himself, under the sanction at d applance of the people, while Arce was expelled from the country, together with the archieshop and many of the superior clergy, whom he had chiefly to thank for his ruin.

ART ESHAUS, founder of the New Academy, lived in the latter part of the 3d century. He was a native of Pitane, in Ledis, and was originally intended for a rhetorician, but while pursing his studies at Athens, became so casamered of philosophy that he determined to devote himself to it altogether. He did not however confine himself to any one school, but studied all the various systems. He was a wit, a post, and an accomplished orator, as well as grave philosopher. He was not rich, and yet could afford out of his limited means to be generous to the needy. His chemics, however, charged him with being a voluptuary and a wine-hibber. He was the success of Crantor, in the chair of the academy of Athens. As he wrote nothing, his cepturies were understood imperfectly even by his centemperaries, and are known to us only through the partial and unfair statements of his opposite. But he was not a skeptic in the Pyrrhome susse of that term, and his celebrated saying, "that he knew nothing, not even his own ignorance," may have been uttered to indicate his humility and diffidence rather than his infid-lity. He certainly did not doubt the existence of truth,

shaped and ornamented as to appear a hundred times lighter than they are. The wedge-shaped stones of which an arch is composed are called voussoirs; the uppermost is the key stone; the two blocks of masonry on which the arch rests are the abutments; the line from which the arch springs is called impost; the inner curve, introduce or soffit: the curve outside the yousarch springs is called impost; the inner curve, intrados or soffit; the curve outside the voussoirs, extrados; the span is the distance between
the piers; the distance of the keystone above
the impost is the height of the arch. The names
of the parts of the arch proper are, the springs
of the arch, the haunches, and the crown.
When the arch has only to support itself, each voussoir sustains the weight of those placed above it, and, consequently, they must be made larger and larger from the crown to the spring; but when the arch has to support weights, the various modes in which they may be disposed require as many different constructions, and the finding of the resulting force acting on each part, is one of the most difficult tasks of the architect, especially as the methods of accom-plishing it are among the least definite of the art of engineering. The use of arches in the form of an arc smaller than a semicircle is quite modern, and superior, for many purposes, to older forms. In bridges, for example, it leaves, in ordinary times, a larger passage for boats, and in times of freshet, offers less resistboats, and in times of freshet, offers less resistance to the water, and the bridge runs less risk of being carried down. Since the introduction of cast-iron in architecture, arches of that metal and of a single piece have been built; in such cases the arch is used only to please the sight, as the solidity of the structure depends entirely on other portions of the work.—A TRIUMPHAL ARCH is a monumental structure crected in honor of some celebrated person and his deeds, or to commemorate some great event. They or to commemorate some great event. They probably originated with the Romans, and Sterprobably originated with the Romans, and Ster-tinius is the first recorded who erected such a monument. Two were built by him, one about 196 B. C. in the Forum Boarium, and another in the Circus Maximus. In the year 192 B. C., Scipio Africanus built one on the Clivus Capi-tolinus, and in 121 B. C., Fabius Maximus erected one on the Via Sacra. Of these, none remain. Different writers record 21 as having been built in the city of Rome.—The most calcubeen built in the city of Rome.—The most cele-brated of Roman arches are those of Augustus at Rimini, of Trajan at Beneventum and Ancona; and those of Titus, Drusus, Septimius Severus, and Constantine at Rome. That of one of the best. It is situated at the foot of the Palatine, and was probably completed after his death and apotheosis, as in the inscription he is called Divus. It commemorates his conquest of Judea. On the inner sides of the conquest of Judea. On the inner sides of the arch are two basso-rilievos; one exhibiting the emperor in his car drawn by 4 horses, with lictors attending; victory following, in her left hand a branch of palm, and in her right a crown of laurel over his head. The horses are led by a figure representing Rome with armor, and followed by magistrates; the other basso-ri-

lievo represents the table of shew-bread, the golden candlesticks of 7 branches, tables of the law, ark of the covenant, and other spoils brought from Jerusalem. Remains of Roman arches are to be seen in Spain, Greece, and other countries. The custom of raising magnificent triumphal arches began under the first emperors.—During the republic, arches were decreed to victorious generals, but not to the dead. When Augustus was emperor, the senate proposed to have one built in honor of Drusus Nero, who died in Germany. Augustus consented, and a marble arch was constructed on the Appian Way. In modern Italy there is one of Alfonso in Naples, and one in Berlin at the entrance of the palace. But Paris, of all modern cities, has the greatest number and the most beautiful. The Portes St. Denis and St. Martin were erected in 1673—'74; the arc du Carrousel in the years 1806—'9, in honor of the armies of France. It is at the west entrance of the Tuileries; its height is 47 feet, its breadth 55. Its two principal faces have each 8 Corinthian columna, surmounted by statues. The most magnificent is the arc d'Etoile, at the extremity of the avenue des Champs Elysées, built for the purpose of commemorating the victories of Napoleon. It was commenced in 1806, but not completed until after the revolution of 1830. It is in the form of a parallelogram, its height and breadth being each 150 feet. It has 8 arches, the centre one 95 feet, and the side arches each 52 feet in height. On the eastern and western fronts are colossal groups in relief, and also on the frieze. The arch at Hyde Park corner with the equestrian statue of the duke of Wellington, and Cumberland gate, are the only specimens in England. In China they are rumerous. It has been computed that their number is as great as 1,100, of which 200 are very beautiful. They are situated, not only in the cities, but on eminences along the roads running through the empire. Some few of the less beautiful are in honor of distinguished females.

ARCIIÆOLOGY, the science of antiquities, properly commences with that branch of geology known as paleography. Organic remains attracted the attention of philosophers 500 years B. C.; but until the middle of the 17th century they had not decided whether fossils were the "sports of nature," or relics of once living beings, and some gravely maintained that the petrified bones of elephants were those of fallen angels. It was reserved for Cuvier and his successors to unroll the volume of nature rich with the relics of primeval ages, and enable the archæologist to commence his studies with a knowledge of the forms and characteristics of the inhabitants of the preadamite and antediluvian world. With the period subsequent to the deluge begins the special province of archæology, to trace through the primitive arts the history of civilization and social development of man.—During the ages of barbarism men were comparatively isolated from each other. Their weapons, uten-

sils, and ornaments, were few, and formed of wood, hone, and stone, which each carved out for himself. The use of metals was the first step in civilization. These materials afforded for himself. ample room for development of skill in work-manship and hence new tastes and arts were formed. The supply was limited both as to quantity and locality; this necessitated a sysbarter, the beginning of trade. Gold tem of was probably the first metal wrought, on account of its attractiveness and superficial de-posit. Tin and copper must have been used at a very early period in Great Britain. Here were the materials for brass and bronze. skill for combining them was soon imported from Ezypt. The intercourse between these nations is spoken of by Herodotus and Polybius, and their accounts confirmed by the bronze relies of similar shape found in both countries. Greece probably acted as a medium of communication. This is inferred from several circumstation. cation. This is inferred from several circum-stances, among others the fact that the leaf-shaped swords depleted upon Greeian vases apshaped swords dept ted upon Greenan vases appear to be accurate representations of those used by the ancient Britons, and the nations of northern Europe. The Greeks attained great perfection in metallurgic arts. Homer describes coats of mail, goldets, tripods, &c., on which figures were represented. Considerable progress must have been made in working metals before iron became in much use. The Romans were early workers in this metal; so also were early workers in this metal; so also were Celtic and Germanic tribes, from one of when the Nord, some have supposed they de-rived their knowledge of steel. It is more pro-bable that they owed this metal to Egypt or A syria. Written language was contemporateous with metallurgic art. Hieroglyphics probably belong to the age of copper, enchorial writing to that of iron. This branch of ar-chaology must be studied under the heads of ethicography and paleography.—Numbematics is a branch of an hardegy valuable in illustrating history. Plattersh was the first who thus applied it. By the aid of coins and medals, dates on he determined, series of kings tracesly dates on he detertained, some or kings traces, weights and current as assertained, progress in art noted, &c. As an illustration we may refer to the literary history of the two books of Macaboes. These books are the only historical like between the old and new dispensations. state a set. These bases are the only instorical lick between the old intel new dispensations, the only record of the milliment of the premises which force II the restoration and continuation of the death sequential the Messiah should come. Owing to the discrepances between the riche hogy and that et close history, they were record as non-initio the until Erasia a Trollich tested their accounts by the continuous Trollich tested their accounts by the continuous arrival and inshort trustwerthy aid which are has begy offers to history. Its symbolic records a pay a vast amount of collateral exiders a Arch cology has revoked in soft that is interesting respecting the coranic art, or pottery. Distances of Sieyon has been supposed

to have been the inventor of modelling in terracotta; Cornelus of Athens, of pottery; Talus, nephew of Dadalus, of the potter's wheel; but although the potters of Corinth, Egina, Samos, and Athens, did much to perfect their art, yet they must yield the honor of their inventions to the Egyptians and Phonicians. -Glass according to Pliny, was accidentally discovered by some Phoenicians. Bernard Palissy attributes it to the Israelites. It is tolerably certain that the first manufactories were in E2512. It was thence introduced into Sicily and E1721ria, and from this latter country the Romanprobably derived their knowledge of it, Larg quantities of glass vessels have been found in the catacombs exhibiting proof of much skill in painting and staining. The celebrated Portland vase shows the perfection to which this art was carried. This is composed of 2 layer of glass, representing white figures sculptured in relief upon a blue ground, and is so perfect an imitation of an onyx cameo, that for a long time even the most scientific were deceived. From Egypt and the adjacent countries are derived the earliest specimens of engraving, not only upon metals, but upon glass and gens. These last were principally used for signet rings. Every Babylonian, according to Heroslotus, had his signet; so also had the Egyptians, for each one scaled his own sacrifice. The Etruseans, who were very fond of personal ornament, derived much of their skill, both in design and execution, from the Babylonio-Ph. inician artists. In Micali's engravings there a collection of buckles, diadents, neck-acc, rings, &c.; some very large and adorned with engraved flors, birds, sphinxes, and could it-ants; the designs show their foreign origin, the setting is Etrus an. All departments of as-cient art, all relies of by-gone ages, even who apparently slight and trivial, are to the arch e-ologist foll of light, illuminating the dark records of the past, and bringing into full relief everts which else had been buried in oblivion, or verifying annuls which have been cast uside. A case in point is Manetho's chronols of the kings of Egypt, which he compiled from the records of the temple of Heliogo, so in the time of Ptolemy Philadelphus. His history, until lately, was rejected as a tissue of fables, but the translations of Egyptian hieroglyphas with a factor of the translations of the tr in a few years, have corroborated his statements as more to be relied on than even those of Heres! oths, -Two truths are taught by archaeology, one, that no nation is self-made, and that international intercourse is absolutely necessary f τ the development of art and civilization; the other, that art and civilization originated in the East. This is contrary to the theory of art historians of the last century, who claimed fr Greece the most absolute originality of conception and design. But every discovery in In ha Assyria, and Egypt, confirms their position as bioneers in the world's progress. It is to e must pioneers in the world's progress. Justice must be noted to all. The Semitic nations processed brilliant imagination, gigantic and ready pow-

ers of invention; but they had not the faculty for adaptation and development which characterized the Indo-Europeans. The former invented, the latter perfected.

ARCHAISM, is the use of an antiquated ex-

pression. It may be either a word, declension, conjugation, or a form of speech. It is sometimes used with good effect in poetry, but it

must be but seldom employed.

ARCHANGEL. I. The name of a government on the White and the Polar seas. Lapps, m still furthest north in European Russia. Lapps, Finns, and Samoyeds, many of them still heathen, form the native population, living independently among the conquering Russian settlers. The country is covered with immense forests, which afford excellent materials for ship building. The soil can only be cultivated in summer; it yields vegetables, oats, barley, and other hyperborean products. The area is more than 80,000 square miles; the population about 300,000. II. ARCHANGEL, or the city of the archangel Michael, named after a monastery built there in 1584, is the capital of the government. It is situated on the river Dwina, 40 miles from its mouth. It has about 15,000 inhabitants, a military and a civil governor, an furthest north in European Russia. habitants, a military and a civil governor, an archbishop, a high school or gymnasium, and a navy yard, and several private ship-yards. For nearly a century and a half Archangel was the principal and indeed the only mart of the Russian import and export trade, as, previous to the construction of St. Petersburg, the empire had no other considerable port. As early as the time of Queen Elizabeth, English merchant ships occasionally entered the mouth of the Dwina, and they were soon followed by those of the Dutch and the German Hansa. Thus, in the the Dutch and the German Hansa. Thus, in the year 1670, bills of exchange, though unknown elsewhere in Russia, were introduced in Archangel. The harbor is large and one of the best in northern Europe, with the exception of a sandy bank at the entrance. Archangel is still one of the principal points for the trade with the interior of Russia and with Siberia, the Dwina being connected by canals with the Volga, and thus with Moscow and with Astra-chan. The ice disappears in April, and in May foreign vessels—now including many from the United States—arrive; the navigation closes in September. The principal objects of trade are fish, fish-oil, tallow, linseed, furs, hides, lumber, wax, iron, linen, bristles, and caviare. During the late eastern war the harbor of Archangel, defended by the fort Nowodwiesk, resisted the During English attacks. Indeed the allies were rather unsuccessful on the shores of the White sea. Indeed the allies were rather Archangel, being able to receive the largest men-of-war, has now become one of the chief places for the construction and maintenance of places for the construction and maintenance of the Russian navy, the Black sea being almost shut for that purpose by the treaty of Paris (1856). The buildings of the admiralty or navy-board, as well as the barracks for sailors, are situated on the island of Solombalsk; they have lately been considerably enlarged. In

summer Archangel sends out numerous fishing boats, and, in winter, hunters to the utmost northern regions, such as the Spitzbergen, Nova Zembla, and the mouth of the Lena in Siberia. A special company has been formed in Archangel for the herring fishery.

ARCHBISHOP (Lat. archiepiscopus), the chief of the bishops of an ecclesiastical province. The dignity originated by degrees in the progress of the hierarchy. As the bishops of the cities, especially of those churches which had cities, especially of those churches which had been founded by the spostles, acquired author-ity over adjacent country congregations, so they themselves became dependent upon the bishops of their metropolis; and thus a few chief cities, which were the centres from which Christianity spread into the towns and counbecame also the centres of authority. The first formal sanction of this authority was by the council of Nice, A. D. 325, which dis-tinguished the bishops of the capitals as metropolitans, and the more eminent of the metropolitans were termed archbishops or patriarchs. In the 8th century the title was applied to every metropolitan and to the more eminent of the bishops. Since that time, in Roman Catholic countries the archbishops have had a more definite position in the hierarchical scale, more definite position in the hierarchical scale, although their prerogatives have considerably varied. They possess a double character, exercising over their own diocese ordinary episcopal functions, and also having a jurisdiction over the bishops of their province, who are hence termed suffragans. They claim the right of calling provincial synods, of presiding at them, and publishing their acts; also the right of supervision, and an appeal lies to them from the decisions of the bishops. The archbishop also supplies benefices left vacant by the bishops for supplies benefices left vacant by the bishops for a longer time than that prescribed by the canons, and receives the bulls of the pope canons, and receives the bulls of the pope which he announces to his suffragans. He enjoys also other prerogatives, as the use of the joys also other prerogatives, as the use of the pallium, a decorated robe symbolizing superior power, the privilege of having the archiepiscopal cross carried before him, except in the presence of the pope or his legate, and of pronouncing the benediction through the whole extent of his province. His civil rank is fixed by special law, and his ecclesiastical rank is next to that of cardinals.—The archiepiscopal dignity has been rateined in several Protestant. dignity has been retained in several Protestant churches, particularly in the Anglican church. The ecclesiastical government of England is divided into 2 provinces, Canterbury and York. The archbishop of Canterbury is the chief primate and metropolitan of all England, first primate and metropolitan of all England, first peer of the realm, and member of the privy council. It is his prerogative to crown the king, and he is consulted by the ministry in all ecclesiastical affairs, and generally delivers in parliament the sentiments of the bench of bishops. The archbishop of York crowns the queen, and is her chaplain. He also belongs to the privy council, but his inferiority to the archbishop of Canterbury is recognized in his being styled simply primate of England, while the latter is styled primate of all England. The 2 archloshops have precedence of all temporal pears, excepting these of the blood royal, and excepting the lord charcellor, who in processions is interposed between them. The archbishop of St. Andrews was the metropolitan of Scotland while episcopacy prevailed in that country, and the archbishop of Armagh is preciate of all Ireland. In Denmark the bishop of Copenhagen has precedence of the others, but the bishop of Legal is the archbishop. In France there are now 15 Catholic archbishops: in Italy, 38% in Spain, 37% and in the United States of America, 7. In Germany, 3 of the archbishops, those of Treves, Cologne, and Mentz, are electors of the empire. Archbishops in the lections of Freyes, Cologne, and Mentz, are electors of the empire. Archbishops in the Catholic charters, and continued by the archbishops. In the church are nominated by the archbishops. In the church of England they are appointed by the ministry in the name of the crown.

ARCHDALE, Johns, governor of Carolina, lived in the latter half of the 17th century and the beginning of the 18th. He was a quaker and one of the properctors of Carolina, by whom he was deputed to act as governor of the provinge after Lord Ashley had declined the office. He arrived in the country in 1695, was received with every demonstration of joy, and in the course of a year, by wise and judicious measures, speeceded in restoring order and contention in the place of confesion, and in developing very considerally the resources of the country. To him is due the introduction of rice, tow one of the most important staples of the Carolinis. He remained in the province but a year, and in 1707 published a descriptive and distorned work on it.

the Carolin is. He remained in the province but a vear, as d in 1707 published a descriptive and listorical work on it.

ARCHDEACON, an exclosiastical dignitary, the assistant of the bishop. At the beginning of the 4th certury their was in almost every discover an archdeavon, invested with authority by the bishop, particularly in the administration of tenjoral adars. To have belonged the care of preserving public order and propriety during the discovery manufactory of gravillar the original forms of the chart stress of gravillar the propriety during the discovery the hard of tending the poor throughout the discover. He was called the hard and the event the bishop, and, in a his influential positive because recentrated as superior to the proceeding the particle descons and of the younger clergy who were not yet consecutively hard to be present of the discous and of the younger clergy who were not yet consecutively had to be present of the access and the first subject to the restination and studies, so that a certificate from him was regalized between the restination of attach to the assistant as the test of a relationships. The archdeavor is the test seeds in redependence and power til the 13th century, who they claimed a jurishiction proper to themselves, and the

right to appoint their own subordinates. Though their power was not developed in every quarter to an equal extent, it was yet always hazardous to that of the bishops, and a reaction against it arose. Several synals sought directly to limit their prerogatives, and it was finally decreed by the Council of Treet that hencetorth the archdeacons should had their right of supervision only by the bishops' permission. From that time they have gradially disappeared from many dioceses. English is divided into 67 archdiaconates, and it is imperative upon each archdeacon to visit has direct at least once in 3 years. It belongs to him to see that the churches and chancels are in repair, that every thing is done conformably to the canons, and to hear from the church-wardens any representations of public searchal. The revenue attached to this office is very small, so that it is usually held by persons who have other benefices. The archdeacons are appointed by their respective bishors.

pointed by their respective bishops.

AltCHDEKIN, Riemann, a Jesuit and theologiam, born at Kilkenny, in Ireland, in 1619, died at Louvain in 1693. He became a Jesuit in 1642, and spent the greater part of his life in the Belgiam provinces, preaching the theology and philosophy of the order in many places. He published a "Treatise on Metados" and the published a "Treatise on Metados" reduction, a work which had a great reputation, and went through numerous editions.

went through minerous editions.

ARCHDUKE. Early among the German's the chiefs or kings appointed from the real mosdiate companions dignitaries of various reak, and thus we find among the Franks are clockes of Austrasia; the title also existed in he made and Brabant, and was especially assume it by the house of Austria, without, however, a positive historical record as to when er way it was greated to them by the emperors. The Kahlemberg branch of the house of Austria or Hapsburg has used the title since the year 1156, but without special privileges. It became hereintary in that line after the promulgation of the golden ball, but the electors did not recognize its validity till the year 1456. It is supposed, however, that Maximana. I extended this dignity to his branch of the tanaly, attaching to it various privileges, and placing the archdukes in every respect above all other crowned vissals of the German empty. The Hapsburgs have preserved it ever since and since the destruction of the fendal Roman terman empire it 1806, all the male and tensle members of the house of Austria have been called an challed a or archdulaclesses.

members of the house of Austra have been called archdules or archduch sees.

ARCHELAUS. I. Surnamed Physics, or the Naturalist, is by some supposed to have been a native of Athens, by others of Miletus. He flourished in the 5th century, and was a pupil of Anaxagoras. Archelius is said to lave been the first philosopher who taught physics in combination with ethics, at least in terceoes, whence, probably, his synonyme. His way of accounting for the existence of this lower world

and its inhabitants, was somewhat singular. He held that the antagonism of heat and cold consed the separation of fire and water, and produced a slimy mass of earth; that while this mass was acquiring consistency, the action of heat upon its moisture generated animals, which were originally nourished by their native mud, and gradually became capable of gating their species; that these animals were all endowed, though in different degrees, with intellect, and that man, separating in time from his brother animals, rose above the condition of his brother animals, rose above the condition of a brute, and established, at length, laws and communities. His most remarkable ethical doctrine, and that which formed the basis of his moral system, was that "right and wrong are not from nature, but from custom." After the banishment of Anaxagoras from Athens, are not from nature, but from custom." After the banishment of Anaxagoras from Athens, Archelans established himself in that city as a teacher of this mixed philosophy, in which he is said to have instructed Soorates and Euripides. II. A king of Macedonia from 413 B. C. to 899 B. C. He was, according to Plato, an illegitimate son of Perdiccas II., and a monster of cruelty. Thucydides, however, appears to know nothing of his revolting vices, and evidently considers him one of the best of the Macedonian kings. If we may believe this great authority, Archelaus did more for the internal improvement and future grandeur of his kingdom than all his predecessors. By erecting fortresses, forming roads, and adding to his military strength, he established the basis on which, in after times, the genius of Philip and Alexander raised the superstructure of Macedonian power. He also instituted public games at Ægæ, or Dium, in imitation of those at Olympia, which he dedicated to the Muses, and Zeus. Even his enemies admit that he was a lover of literature, science, and the fine arts. His palace was adorned with paintings by the greatest Grecian masters, while Euripides, Agathon, and other distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men, as well poets as philosophers, did not distinguished men as the part of the p ings by the greatest Grecian masters, while Enripides, Agathon, and other distinguished men, as well poets as philosophers, did not disdain to become his guests, and to accept him as a patron. Archelaus is said to have been slain at a hunting party, by his favorite, Craterus, but whether he was killed accidentally, terns, but whether he was killed accidentally, or murdered deliberately, is not certainly known. III. Son of Theodorus, was made governor of Susiana by Alexander the Great. On the distribution of the provinces, after the death of his sovereign, he received Mesopotamia as his portion. IV. A sculptor, was a nation of Prison and the son of Apollonius. He death of his sovereign, he received mesopotermia as his portion. IV. A sculptor, was a native of Priene, and the son of Apollonius. He is supposed to have lived in the reign of Claudius. He made, probably, for that emperor the marble bas-relief representing the apotheosis of Homer. This celebrated work is now in the British Inis celebrated work is now in the British museum, and is worthy of being ranked with the most exquisite productions of ancient Greece. V. The greatest of the generals of Mithridates, was by birth a Cappadocian. He first appears in history as commander of the army which his master had sent against Nicomedes, king of Bithynia, whom he encountered in Paphla-

gonia, and completely defeated. On the out-break of the first Mithridatic war, he was dis-patched with a powerful naval and military pateness with a powerful naval and military force into Greece, where he subdued many of the Ægman islands and compelled the Athenians to take part against the Romans. But when Sylla assumed the conduct of the war against Mithridates, the triumphant career of Archelaus terminated. At Cheronea and Orchomenos in Rosetie his Asiatic musicals were chomenos, in Bœotia, his Asiatic myriads were chomenos, in Bœotia, his Asiatic myriads were totally overthrown, and almost annihilated, and he was himself driven, after each defeat, to become a fugitive, and elude his enemies by concealment. Mithridates now saw the propriety of suing for peace, and commissioned Archelaus to negotiate with his conqueror. The two generals met at Delium. Before proceeding to here say lie said to have violents. ceeding to business Sylla is said to have vainly endeavored to induce Archelaus to betray his sovereign. Afterward a preliminary treaty was concluded, which was to be ratified if approved by Mithridates. It was not approved by him, but Sylla passing over to Asia, by the advice of Archelaus had an interview with the king of Archelaus and an interview with the king at Dardanus, and there made peace with him This peace was chiefly brought about by the mediation of Archelaus, and was so favorable to the Romans, in the estimation of his master, that henceforward the general was regarded as a traitor, and had ultimately to take refuge with his former antagonists from the vengeance of Mithridates. He was well received by the Romans, and had many favors conferred on him Romans, and had many favors conferred on him Romans, and had many favors conferred on him by the senate, but from the period of his flight he disappears from public life, and nothing more of interest is known concerning him. VI. Son of Archelaus, the general of Mithridates, was made priest of the goddess Bellona at Comana, in Cappadocia, by Pompey in 63 B. C. This office conferred on him the power of king over Comana and its territory. But Archelaus was ambitious of greater honor than attached to the high-priesthood of Comana, and when Berenice queen of Egypt, preclaimed that she Berenice, queen of Egypt, proclaimed that she was desirous of marrying a prince of royal blood, he pretended to be the son of Mithridates Eupator, and became a suitor for her hand. His suit was successful, and Archelaus presently found himself the husband of Berenice, and king of Egypt. But he did not long enjoy his new dignity. Gabinius, the proconsul of Syria, having espoused the cause of Ptolemy, marched an army into Egypt, where a battle was fought in which Archelaus lost his crown and life after a reign of only 6 months. VII. A Greek in which Archelaus lost his crown and life after a reign of only 6 months. VII. A Greek epigrammatic poet who flourished in the reign of Ptolemy Philadelphus, and is supposed to have been a native of Chersonesus in Egypt. He is said to have epigrammatized stories for the amusement of Ptolemy, and to have written poems of a similar kind on strange animals and paradoxical subjects. The best edition of the extant fragments of the works of Archelaus, is that of Westermann. VIII. Son of Archelaus the priest, succeeded to the office of his father at Comana. In 51 B. C. having aided the in-

strgents in Carpades is with money and men, he surgents in Carpades is with money and men, he was the notify in head finances by Chern, who was the processed of Chera. After the terminal in of the Alexandrian war, he was deprived if the high-prosthood of Comana by J. Chern who gave it to one of his own adherants. IX. Sin of the procedure, was made largest Carbadesh by Anthony, in 54 B. C. Leesen I to have swed inscrewn to the beauty of his restrict, Chaptyra. The dewnfall of his of his rection Glaptyra. The downfall of his putter of a self no infavorable change in the forputer and sold the inflavoration hande in the for-ing the passes of the kingdom, and even add-ed to the possessit of the kingdom, and even add-ed to the possessit of the kingdom, and twen add-gram. As heldes, during this emperor's reign, where one cosed at Rome by the own subjects, but to the literacy minself for an advocate on but to that It was a minself for an advocate on the course in and was of course acquitted. But the reproduce of Archelaes while segurning in Bome transtormed. Increase into a bitter on inj. He had teen seeing late as to manifest in release in advocate for Cales Cosar than Theories, and when the latter became emperated that forget the slight of Archelaes. He is red the king to visit once more the imperial city, and, as soon as he came, had him arrested and accessed to fore the sende of meditating treescenarized from the sende of meditating treescenarized flow. He cold age saved he little of he was empowed to spend the resumandor of he days in Bome, where he died how atter 100 has death Cappadow accessed to be a kingdom and was converted into a Roman province. X. A son of Herod the Great, was province. X. A son of Herod the Great, was resonanced king by the army on the death of his father. But he declined to assume that digally without the sanction of Λ gustis. his accession to satisfact of A gistus. After his accession he is all many fair promises to the people, which however, he tover futilled. Presently a solution broke eat, in the suppress of the five transfer of the cruelty of his rate of the cruelty of his rate of the cruelty of his He then we t to Rome to selicit from hat re- He then well to be first to solicit from the encorer the contribution of his title. In this capable edd not succeed. The title of key was denied him, and had the kingdom given to his brother. He was, however, left the severegity of Judek Samaria, and Idu-m as with the title of ethnirch. On his rethe figure is the content of contraction of this re-turn from Robert he expreed his contempt for the Mosale may by taking to wife Glaphyra, his britter Alexander's widow, who had children living by her former hisband. In the 10th living Ty for Forner hastania. In the foun-year of his ream he was no used by the dews, before A agost se of various crimes, and being found guilty was deprived of his dominions, and batished to Gaid, where he died. ARCHENHOLZ, JOHANN WITHER YOU,

Alle HENHOLZ, Jonesia Withern vos, a German author, born at Langentert, a suborb of Darties in 1741, doch at Handerig in 1812. In 1766 he entered the Prisson army and took part in the 7 years' war. In 1766 he left the service and betook binoself for the next 16 years to trace long over Europe. On his return to Germany for devoted himself to atterny pursons, and not be accessively at Dreslen, Lopezo lier in, it it chooses at Handerig. His work on "England and Italy" gave him some repu-

tation; his histories of "Queen Elizab-th" and "trustavia Vasa" enjoyed also much popularity, but his most valuable work is that which he wrote on the "Seven Years" War." His "Annals of British History since 1782" are piquant and full of ancedote. In his "Historical Essays" he gives in the second volume an interesting account of the fillibraters and prates who infested the West Indies during the 18th century. From 1782 to 1791 he edited a periodical called Literatur and Volkeriumle, and from 1792 to the time of his death he was editor in chief of the Mineral. He was not a man of great learning or erudition, but of vivid imagination and quick perception.

man of great learning or erudition, but of vivid imagination and quick perception.

ARCHERY, the art of shooting with the low. This is, probably, the oldest and most general of all the means and appliances of war and the classe. The first direct mention which we find of the bow, is the passage in trenesis xxviii, where Isaac said to Esau, "Now, therefore, I pray thee take thy weapons, thy quiver and thy bow, and groom into the field and take me some ventson;" but there can be no don't, me some ventson;" but there can be no deals, from other reasons, that it was already a well-known instrument, probably before the deluge, but at least as early as when Nimrosl "terran to be a mighty one on the earth," and that it was one of the principal weapons of destruction at the battle of the kings in the vale of siddin, as it has continued to be with all erreasons. reasoning as it has continued to be with all effects tall nations to the present day.—Next carless to, or rather contemporaneous with the listorical books of holy writ, come the marvelle sly preserved testimonies borne to their truth by the se alptures of Ninevela in which it bow is represented as the favorite weapon of the king and his chief warriors, whether for war or for the chase. In these sulptures it is a long and powerful instrument, drawn to the ear of the shooter, like the famous English long'ow, and carrying an arrow not apparently interior in archers.—In Greek, as in Homan warfare, the use of the bow never played a prominent part; among the former rantom archery being continued. for the most part, to the islanders, part cular-ly those of Crete, and scarcely considered a fitting persuat for freemen, who always served in the heavy-armed infantry, which formed the line of battle, and constituted the effective force of the Hellenic armies. In the lind, Tee er, the sen of Telamon, king of Salamis, and Pandarus the Lycian, are the only two warriors particularly recorded as celebrated for their particularly recorded as colorated for their skill with the bow; and even these play but a secondary part, lurking behind the sholds of the stouter chiefs and shooting from ambush, instead of boldly contending, man to man, in the front ranks. In the case of the latter, how-ever, Homer describes both the bow and the manner of using it; from which it sufficiently appears how yery inferior an instrument it was to the oriental, much more to the Angle-Norman longbow. The weapon of Pandarus was made of the horns of a wild goat, polished, and fastARCHERY 27

ened together in the centre by a golden band or circlet; when bent, it was drawn back against the regular curvature or natural growth of the horn, and the string and feather of the arrow was only drawn home to the breast, instead of the right ear, allowing of course the use only of a comparatively short arrow, and giving but a very inferior extension to the bow.—The Greek bow, in fact, was an inconsiderable weapon, and so well were they aware of the fact, that even where they were opposed to troops famous for their proficiency with the bow, they rarely endeavored to confront their archery with archery, but sought other means to silence their shot.—At the battle of Platesa, where the Greek allies, who had no cavalry at all and scarcely any light troops worthy of mention, suffered pro-digiously during the first two days' fighting from the arrows of the Persians, the Athenians were the only people who had archers in the field, and they were probably not Greeks, but the the only people who had archers in the field, and they were probably not Greeks, but the public slaves—Demosii—mostly Scythians or Thracians by birth, who formed the city guard, dwelt in tents on the Areopagus, and were officered by captains with the title of toxarchs, masters of the bows. These men, being mingled with the files of the hoplita, or heavy foot, under Olympiodorus, did good service, and outshot the famous Persian bowmen.—Again, in the celebrated retreat of the ten thousand, Xenophon soon found that his Cretans could not shoot half so far as the Persians, tans could not shoot half so far as the Persians, and came yet shorter of the terrible Carduchian mountaineers of Koordistan, who fought with 6-foot bows and arrows of 2 cubits' length, and drew their bow-strings to the ear; wherefore he disbanded his bowmen, and organized a force of Rhodian slingers, who slung leaden bullets instead of stones, so as to overpower even the arrow shot of the Carduchians.—Among the Romans, archery was even less practised among the Greeks; and, until a late period of their history, they never appear to have used the bow as an arm of service, the light javelin being the weapon of their skirmishers. But skirmishing was not a part of the Roman tactics, when they could a world; it their ships are when they could avoid it, their chief aim and desire being to come as quickly as possible to close quarters, and to resolve the battle into a series of single combats, with the buckler and stabbing broadsword; when the personal prow-ess and thorough drilling of their men speedily settled the question.—In the latter days of the republic, however, Cretan and even Scythian archers, Rhodian and Balearic slingers, and the Gallic horse—for the Romans were as deficient in cavalry as they were in bowmen and akirmishers—served in their ranks; and during the later days of the empire, Goths, and even Huns, mercenaries or auxiliaries, were largely employed in the heterogeneous masses, which were still called Roman armies, although Ro-mans there were few or none in their composition.—The oriental nations, however, still preserved to the end their superiority in this arm. Crassus fell; Mark Antony, that consummate

soldier, barely escaped with his army after an unparalleled retreat; and Julian, the greatest general of the later empire, lost his life, leaving his empire to be barely saved from utter ruin by his successor, Jovian, in the unequal contest between the incomparable infantry of the legions, and the myriads of horse-archers, inde-structible as swarms of locusts, which formed the strength of the hosts of the Asiatic tyrannies.—The great period of archery, however, arrived with the accession of the Norman line to the English crown, and from that time dates the supremacy of the longbow as a military weapon for infantry, and the perfection of skill in its use, both for range and penetration, not to dwell on its extraordinary accuracy, which enabled it, long after the introduction of mus-ketry, to retain its place as the chief of infant-ry arms.—Originally a weapon of the Norse tribes, it was brought by Duke Rollo and his followers into southern Europe, and skill in its use was considered as essential a part of the education of a Norman knight, as it was of a Persian prince, when to ride, to shoot, and to speak the truth, were esteemed the first things speak the truth, were esteemed the first things to be inculcated by the preceptors of youthful royalty. It is related by William of Malmes-bury, that not a man in the Conqueror's army "could draw his bow, which himself could bend when his horse was on full gallop;" and the Norman archers, whom the Saxons took at first to be priests on account of their being so closely shaven, did good service at Hastings, where the Saxons, being all infantry, and fighting with crossbows and giarmes, or heavy bills and better the saxons, being all infantry. and battle-axes, were intrenched within pali-saded lines, which the Norman chivalry were unable to force. The palisades at first pre-vented the effect of the Norman arrows, when shot in point-blank volleys; but when they be gan to send their flight-shots perpendicularly into the air, so that they should strike on their descent, they galled the defenders so severely, that, partly owing to their distress on this account, partly owing to a feigned retreat by the cavalry, the Saxons broke out of their defences to come to hand and hand encounter, when they were ridden down by the barbed horses. however, until the gradual amalga-It was not, mation of the two peoples into one nation was somewhat advanced, and until the Saxons had adopted the Norman longbow, so that it became the national English weapon, and that "bills and bows," the weapons of the two tribes which had fought in opposition at Hastings became the call to arms of the English in the table that the bow solved its full seconds. fantry, that the bow achieved its full renown.

—This began to be the case at a very early pe-—ins began to be the case at a very early period, since the Saxons, who fied to the forests and morasses, which at that time covered one-half the islands, for shelter from the intolerable oppression of their Norman masters, immediately adopted this weapon, and acquired such fearful dexterity with it, that the weapon they had the same the shorest had themselves introduced became the sharpest thorn in the side of the invaders, and continued

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to work their, some damage, until Normans and Savons were at length leapily merged into one how openings. English nation. Thenceforth it because the terror of the enemies of England. Not a country of the European continent, not even the Same as during the erusades, but learn d the superiority of the island archers, and some came to avoid them as the most formid Me of all enemies. In Spain, France, the Netterlands, even among the Alpine fastnesses of Switzer' and, the English longbow was known, and the twing of its fatal cord universally droubed. In all the extraordinary pitched butthese of the Euglish Plantagenets on the soil of Freeco, wen, contrary to all expectations, and against odds the most imposing, it was the Euglish object, and the Euglish long-low which did the work. And the more circulation of a report that my one of the fair haired Henrys or Etherd's was at sea with 8,000 or 10,000 arches, was chough to set the alarmbells rinear from Calas to Notre Demo, and to call the total military one into the field. Philip de Commes acknowledges that the English arches excelled those of every other nation; Sir John Fort sone declars that "the safety of the realthead of English standards in the first school of English craims." these folia Buggish Plantagenets on the soil of where sor, dames I, in whose time the use of the beachezin to do line, in which orders to the seconds of the countries did not issue—many of which have been preserved for the provid-ing of hows and buildles of acrows, and prac-tice of hows and buildles of acrows, and prac-tice of the yeomatry of the shires in archery, as the control yeomatry of the shires in archery, as a proceeding measure against the casual brother acts of war. So have as to marly the cost of the color of the color of the long-low was the proceeding to the end array soldler of England. The long-low was made by preference of Spirish yew. In English yew, and, when that the third control of the low was the height of the velocity and the arrow half the length of the velocity and the arrow half the length of The present of the bow was the height of the archer, and the arrow half the length of the archer to detect the fitter waspen was also present to detect to the messaciar strength of the archer broad to the messaciar strength of the archer broad to the transfer of archer to detect to detect to the first transfer of the archer broad to the fitter of the proposed to the archer detect was for the fitter form the longest and he beginned to the fitter form the longest and he beginned to the fitter form the longest and he beginned to the fitter form the longest and he beginned to the fitter form the longest and he beginned to the fitter form to be written to the second point of the bolton form that the second pointed or bolton he beginned to the second pointed or bolton for the second form the region of the archer ir braised, and the points to be hardened

with stol. The few-trings were or places sile, all spower of dight, correctness of alta, and ponetration of these terrible missiles, were productors. In shooting matches, flor yards was the common range, and the ordinary mark was a straight willow or hazel red, as tolk as was a straight whilewor hazel rest, as the kas a man's thumb, and 5 feet in length; and such a mark as this a really good are burner, as it was called, or, as we should say, in volvys, they occasionally discharged their arrows at a model have warrenessed. much longer range, particularly when shocking from upper ground, or at an elevation, and with fatal effect.—At 200 yards, no armor but the best Spanish or Milan steel-plate could resist the English arrow; and the legends of men and horses shot through and through, are proved by corsicts of the stoutest plate, preserved in the collections of the earl of Pembroke, at Wilson, Dr. Meyrick, and others, where the shafts have been driven through the breastplate and the whole body of the wearer, and then through the steel backplate, not interior in strength to the breast. The following graphic description of the battle of Creey, from the old translation of Froissart, by Lord Berners, so admirably noistraces the effect of the shot of a longbow, if at no excuse is needed for quoting it entire: "When the Genoese were assembled together, and lesgan to approach, they made a great hap and cry to abish the Englishmen, but they stood still, and stirred not for all that. Then the Genose again the second time made and the to now so again the second time made and ther loop and a fell cry, and stepped forward a little, and the linglishmen removed not one foot. Thereby, again, they looped and cried, and wont forth tall they came within shot, then they shot for the tall their cross-bows. Then the English archers stepped forth one pass, and let fly their arrows so heely and so thick, that it seemed show. When the tretoese for the arrows piecoug through boads, are so and breads, many of them cast down their crosses out to the strings, and returned ascent tell. When the French king saw them if your left in the hows, and did out the strings, and returned de-count ted. When the French king saw them by away, he said, (Slay these russuls, for they should thank trouble as without reason.) Then you should have seen the men at arms disk in among them, and killed a great teacher of them; and ever still the kingashi on shot where as they saw the thickest press; the share arman, manifelation and arms madicially. arrows run into the man, at arms, and it to their horses, and many fell horse and men, aroung the tenoese; and when they were down, they could not relieve again. The press was so thick that they overthrow one another. And also among the Englishmen there were certain ras-cals that went about with great knives, and they went in among the men at arms, and slew and therefore I them as they lay on the ground, both earls, harons, knights, and squares, where for he had rather they had been taken pre-oners." This account of one battle is, in fact, then count of all which were fought victoriously by the English against the French and

with steel. The bowstrings were of plained

the Scots, during the middle ages. Crécy, Poitiers, Agincourt, and 50 other actions, of less note on the soil of France; Halidon Hill, Solway Moss, Northallerton, and Neville's Cross, in Scotland, or on the frontiers, were all fought Crécy, ions, of and won in the same manner, and on the same principle, by the archery or independent yeo-manry of England, the bills and axes of the footmen and the charge of the horse being brought into play, secondarily only, in order to complete the defeat already inflicted by the The few instances in which an Engbowmen. bowmen. The few instances in which an English army of the middle ages, strong in its archery, was defeated, such as Bannockburn, almost a solitary case in point, occurred where the archery, having neglected to fortify their front with a palisade or cheval-do-frise of iron-shod stakes, were charged by horse which they were unable to resist for want of long weapons and of defensive armor; for the brigantines or light scale is cheets of the bowmen could no more rescale jackets of the bowmen could no more sist a lance-thrust or the sweep of a two-handed sword than could a silken vest. Long after the introduction and complete success of musketry, which may be said to date from the battle of Pavia, after which chivalry and the feudal power of an aristocratic cavalry were at an end, archery still continued to be cherished in England, and regarded as the mainstay of the national defence (just as the rifle was considered but a few years since in the United States), as is shown by a curious proclamation, in manuscript, of the times of Elizabeth, which gives, perhaps, the best account now in existence of an archer, with all his necessary appendages. "Captains and officers," it runs, "should be skilful of that most noble weapon, and see that their soldiers, according to their draft and strength, have good bows, well stringed, and every string whipped in their notch, and in the middles rubbed with wax; bracer and shooting glove; some spare strings trimmed as aforesaid; every man one sheaf of trimmed as aforesaid; every man one sheaf of arrows with a case of leather defensible against the rain; and in the same 4 and 20 arrows; whereof 8 of them should be lighter than the residue, to gall or astonish the enemy with the hail-shot of light arrows, before they shall come within the danger of the harquebuss-shot. Let every man have a brigandine, or little coat of plate, a skull or huspyn, a maul of lead 5 feet in length, and a fusee, and the same hang-ing by his girdle with a hook and a dagger. Being thus furnished, teach them by musters to march, shoot, and retire, keeping their faces upon the enemy's. Sometimes put them into great numbers as to battle appertaineth, and thus use them oftentimes practised until they be perfect. For those men in battle or skir-mish, cannot be spared. No other weapon can No other weapon can compare with the same noble weapon. does this praise seem extravagant or unwarranted by the truth, when we look at its success in the hands of those to whom that proclamation was addressed. Yet it is something singular, how purely national a weapon the bow was, at this period of its greatest effectiveness, no other

nation ever having shown themselves able to acquire such mastery of the weapon as should give them any chance of coping on even terms with the English; although the kings, both of France and Scotland, used every imaginable incentive to promote the use of the bow and the cultivation of archery practice in their respective kingdoms. Roger Ascham published, philosopher and grave scholar that he was, a code of instructions to the archer, which are still applicable and excellent for those who still applicable and excellent for those who practise this ancient art, as a graceful accomplishment and exercise; and first of all he recommends a graceful attitude. "The archer should stand," he says, "fairly and upright with his body, his left foot at a convenient distance before the right; holding the bow by the middle, with his left arm stretched out, and with the first 3 fingers and the thumb of the right hand upon the lower part of the arrow affixed to the string of the bow. In the second place, a propstring of the bow. In the second place, a proper attention is to be paid to the notching, that is, the application of the notch at the bottom of the arrow to the bowstring." We are told that the notch of the arrow should rest between the foreinger and middle finger of the right the foreinger and middle inger of the right hand. Thirdly, our attention is drawn to the proper manner of drawing the bowstring. "In ancient times," says Ascham, "the right hand was brought to the right pap, but at present it is elevated to the right ear. The shaft of the arrow, below the feathers, ought to be rested on the knuckle of the foreinger of the left hand." The arrow was to be drawn to the head, and not held too long in that situation but and not held too long in that situation, but neatly and smartly discharged, without hanging upon the string. Among the requisites neces-sary to constitute a good archer, are a clear sight steadily directed to the mark, and proper judgment to determine the distance of ground; he ought also to know how to take the advantage of a side-wind, and to be well acquainted with what compass his arrows would require in their flight. Courage is also an indispensable requisite, for whoever, says our author, shoots with the least trepidation, is sure to shoot badly. One great fault he complains of, which young archers generally fall into, and that is, the direction of the eye to the end of the arrow, rather than to the mark; to obviate this evil habit, he advises such as were accustomed, to shoot in the dark, by night, at lights set up for that purpose. He then concludes with obfor that purpose. He then concludes with observing that bad tutorage was rarely amended in grown up persons; and therefore he held it essentially necessary that great attention should be paid to the teaching of an archer properly, while he was young; "for children," says he, "if sufficient pains be taken with them at the outest may much more casily he taught to outset, may much more easily be taught to shoot well than men," because the latter have frequently more trouble to unlearn their bad habits than would have been primitively necessary to teach them good ones. For all military purposes, and indeed, for all practical purposes whatever, the bow has long ceased to be of use

to any civilized nation, although archery is still kept up as a popular accomplishment and sport-ive exercise, in which even ladies often join and most with great success, in the British islands. The last time bows were seen as wea-pons of civilized war, was when the allied troops were in Paris after the abdication of Napoleon at Fontaincbleau, when many of the most remote auxiliaries and tributaries of the Russian empire, the Bashkirs, the Usbecks, and some of the subjugated Circussian tribes, rode through the streets and boulevards of the French metropolis, sheathed in suits of chain mail, with bowcases beside their scimitars on their thighs, and quivers on their shoulders. As instruments of war and the chase, the bow is now contined to the most savage and uncivilized tribes, and but one people has ever been discovered so barbarously ignorant as not to have attained sufficient inventive genius to devise, or skill to use, the bow and arrow; those are the natives of Australia, undoubtedly the lowest created beings that wear the form of humanity, and claim the name of man. The disuse of the bow by the Esquimaux is not the consequence of ignorance, but of the want of materials, no wood being attainable by them from which a bow could be constructed. Many of the North American Indhars, in past times, were exceedingly expert with the low; but they early adopted the mass ket or the rule, and, at the present day, except anong the most remote frontier tribes, the bow is never soon unless it be among the children, or as an amplement, for catching fish, The Caor as an imponent for catening usn. The Ca-manches, however, are an exception, for to this day, like the Parthians of old, their force con-sists in the perfection of their unrivalled horse-poneship and of their unerring archery. Their hows are short, and their arrows clumsily pointed, but they are feathered on the true prite ple, exactly as was the old English cloth-yard arrow; and the warriors discharge them with sigh tremendous force that they have been known to pass entirely through the body of a bison, and tall, crims ned with blood, on the further side. Such weapons are not harmless even against the arms and discipline of the whites, and many a gallart American has fallen by the interring shatts of these fierce and in-domatatic savinges, the last men, probably, on earth who will be famous as an archer nation.

AliCilles, Court or, a court of ecclesiastical law in Lin col. Properly the arches court has a very initial jurisdiction over part of the city of Lord in but as the dean of arches is usually the deputy of the archbishop of Canterbury the depthy of the architistic of amorning, notifiedly the superior collessatural judge of England, the nights court has come to be the choice of ourt of appeal in the province of Canterbury, which includes nearly the whole of England. An appeal lies from the court of spilor to the king in council, re, to the jus-England An appeal has from the collection arches to the king in council, i.e., to the justice of the receive council. The do also minittee of the privy coincil. dean of arches is exorficio president of the col-lege of advocates of civil law, and as the admiraity law is founded on the civil law and jusgentium, it is usual to constitute the dean of

arches the principal judge in admiralty.
ARCHIAC, ETIENNE JULES ABOTCHE DE-WIER ARCHIAC, ETIENNE JULES ABOUTHE PE-WIER DE ST. SIMON. vicomte d', author and geologist, born at Rheims, Sept. 24, 1802. He graduated from the military school of St. Cyr, as an officer of cavalry, in 1821, but quitted the service after the revolution of 1830. He had previously shown a taste for literature, and 1 ad published a romance entitled "Zizim; or, the Chivalry of Rhodes," but he henceforth devoted himself exclusively to scientific pursuits, and particularly to geology. His contributions to particularly to geology. His contributions to this department of knowledge have been many and valuable. The most important work that he has undertaken is the "History of the Pro-gress of Geology from 1834 to 1851," which is published under the auspices of the French government. It is to consist of 8 volumes, of

parameter. It is to consist of 8 volumes, of which 4 only have been completed,
ARCHIAS, A. Licinits, a Greek post, bornat A: tioch toward the close of the 2d century B.C. and of whom we should know almost nothing and or whom we should know almost hotter; were it not for the extant oration of Cicero in his defence. When a young man he went to Rome, and was treated with much attention by the leading men of the republic. He became particularly intimate with the Licinian family whose memory are assumed as a fallow of the standy whose name he assumed as a token of respect. He attended Lucullus to Sicily, and afterward to Heraclea in Lucania, whither his patron was banished for his conduct in the Servile war. He was with Lucullus in Asia during the 1st and 3d Mithridatic wars, and in the interim he accompanied him into Africa. He at length re-turned to Rome, but no somer did he do so than an accusation was brought against him for having assumed, without just title, the privi-leges of a Roman citizen. The case was tried having assumed, without just title, the privi-leges of a Roman citizen. The case was tried before Q. Cicero, who was then prietor, and has relative, Marcus Tullius, undertook the defence. The result is unknown. Cicero and Quintil an assert that the peems of Archias were equally remarkable for beauty of style and variety of

ARCHIATOR (Gr. apxiarpor, chief physician), a title which seems in the first place to have been purely honorary and not official. In the times of the Roman emperors, the state of medical science was very low among the Romans. Greek physicians were therefore encouraged by the emperors to come to Rome. To remove as much as possible the propulate naturally excited against them by national probe. macurany excited against them by national grides, Julius Casar bestowed on them the rights of citizenship. Augustus was taken with volunt arthritic pains, and was successfully treated by Automus Musa with cold affusions. In grattude for his recovery, Augustus had been been as tude for his recovery, Augustus knighted his meshed attendant, and exempted all the plysicians of the empire from taxes and police burdens. Nero first gave the title archiater to his physician, Androunchus the clder. was intended only as a personal compliment to Andronachus, coming trom so august a source, passed rapidly into an institution, and archistor

became the designation of a class, a rank with degrees. The archiatri were divided into two classes, the city archiatri and the court archiatri, whose spheres of action and privilege are miliciently indicated by the terms themselves. Later it came to be a civil requirement (Ant. Fins) that small cities should have 5 archiatri, larger ones 7, and the largest 10. The archiatri were salaried officers, and were expected to treat the poor gratuitously. As perpetted to treat the poor gratuitously. quisites, they charged the rich for practice, and also had certain stipends called annonaria commoda. It was also considered a part of their duty to teach medical science to as many pupils s chose to avail themselves of their instructions, and to exercise a general supervision over the health of their medical dioceses, and the prac-tice of the inferior physicians. We see here the germ of medical colleges and boards of health. In Sweden and Denmark the order still exists. In Sweden, however, only the court class of the archiatri is recognized. The archiatri were usually elected by the suffrages

of physicians.
ARCHIDAMUS, the name of several kings of Sparts. I. The son of Anaxidamus, who of Sparta. I. The son of Anaxidamus, who lived during the Tegestan war, which broke out soon after the termination of the second Messenian war, in the year 668 B. C. II. The son of Zeuxidamus, and succeeded to the throne in the year 469 B. C. In the 5th year of his reign there was an earthquake in Laconia which almost destroyed Sparta. In that trying period the foresight of Archidamus probably saved the surviving citizens from being massacred by the Helots. Apprehending danger cred by the Helots. Apprehending danger from their scattered and defenceless condition, he caused an alarm to be sounded, which speedily collected such a body of them round him as was sufficient to deter their enemies from attacking them. In the wars against the revolted Messenians it was Archidamus who commanded the armies of Sparta. In the discussions at Sparta and Corinth, which preceded the rupture with Athens, he acted a prominent part, and always as the advocate of peace and moderation. He survived the outbreak of the Peloponnesian war about 5 years, during which time he had the conduct of three expeditions against Attica and one against Platea. Archidamus died in the 42d year of his reign, 427 B. C. He was a wise and excellent man, the friend at once of his country and of Greece. Archidamus left two sons, named Agis and Agesilaus, and one daughter, named Cynisea, who is said to have been the only woman that ever won a victory in the hippodrome at Olympia. III. Son of Agesilaus II. While yet a boy he prevailed on his father to pardon Sphodrias, who had dared to make an irruption into Atti-ca at a time of profound peace. In 371 B. C. ca at a time of profound peace. In 371 B. C. he was sent to the relief of his countrymen who had been vanquished at Leuctra. In 367 B. C. he defeated the Arcadians and Argives in what the Spartans termed the "scarless battle," because they had won it without the loss of a single man. In 362 B. C. he was intrusted with the defence of Sparta while Agesilaus was absent at Mantinea, and repelled the attack of Epaminondas on the city. In 861 B. C., on the death of his father, he succeeded to the throne. In 856 B. C. he supplied the Phocians with money to enable them to set at defiance the Amphyctionic decree, and to seize the tem-ple at Delphi. Toward the close of the sacred war he entered Phocis with a considerable force to aid its people against the Macedonians and their allies, but on the approach of Philip Archidamus retired and left the Phocians to their fate. In 338 B.C. he went to Italy to their fate. In 838 B. C. he went to Italy to succor the Tarentines, and was slain there in battle on the very day in which the Athenians and Thebans were overthrown at Chæronea. Archidamus III. appears to have been a warlike prince, but he was neither a great general nor a great statesman, and makes only a poor figure in either capacity after such kings as his father and grandfather. IV. Son of Eudamidas I. and grandson of Archidamus III., was king of Sparta in 296 B. C. In that year he was vanquished in battle by Demetrius Poliorcetes. V. Son of in battle by Demetrius Poliorcetes. V. Son of Eudamidas II. After the assassination of his brother, Agis IV., he fled from Sparta, but subsequently returned and possessed himself of the throne. He had hardly ascended it, however, when he was slain by the murderers of his brother, who feared his vengeance if his power should become confirmed. Archidamus V. was the last king of the Eurypoutid race that reignthe last king of the Eurypontid race that reigned in Sparta. When he was killed the rights of his children were disregarded and his crown

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was given to a stranger.

ARCHIGENES, a Greek physician, whom
Juvenal has immortalized. He was a native of
Syria, and a pupil of Agathinus, whose life he
is said to have once saved. He practised at
Rome in the reign of Trajan.

ARCHII a deep reddish, purple due, pre-

ARCHIL, a deep reddish purple dye, pre-pared from the *lichen rocellus*, which grows on the rocks near the sea in the Canary and other islands in the Atlantic and Mediterranean, and a second variety of it from the parellus of the basaltic rocks of Auvergne in central France. It is a thick, liquid preparation of ammoniacal odor, and is obtained by macerating the lichens onor, and is obtained by macerating the lichens in a covered wooden vessel with some ammoniscal liquor. It affords many fine shades of red, but they lack permanence. It is particularly useful for modifying, heightening, and giving lustre to the other colors. The solution in alcohol is the colored liquid ampleved in minialcohol is the colored liquid employed in spirit of wine thermometers.

ARCHILOCHUS, a Greek poet, classed by Cicero with Homer and Sophocies, born in the island of Paros, flourished between 720 and 660 B. C. While a resident of Thasos, he incurred disgrace by throwing away his shield in a battle. He was the inventor of iambics. His terrible invective is said to have caused several suicides. A hymn to Hercules was the most esteemed of his poems, and used to be sung three times in honor of the victors at the

Complements | The grass land only of his | Water land on the Herman | Market land on t Clyrry raises. The gross but relayed his with sliven fraudularily alloyed with the content of the trains.

The North statement of the Possian May receive the design of the Possian May receive the first of the Possian to the dispersion of the Possian to the Poss

theguls of Argolis, Ægina, Volo, and Salonica, and Capes Malea, Colonna, Drepano, Santo, and Heles. It is studded with a vast number dislads, ranging in size from mere rocky islets to areas of 4,500 square miles (Candia), and mostly composed of calcareous masses, forming high bluffs, or mountain clusters, rising so abruptly from the sea that an average distance of one mile from their shores gives a sounding of 200 fathoms. Many of the mountained to the sea that an average distance of one mile from their shores gives a sounding of 200 fathoms. Many of the mountained to the sea that an average distance of one mile from their shores gives a sounding of 200 fathoms. tains rise to a height of 2,000 feet, while Mt. feet. On the summit of this mountain are the remains of an ancient temple of Neptune. The remains of an ancient temple of Neptune. remains of an ancient temple of Neptune. Inc.

**Exean islands are generally divided into two
groups, viz., the Cyclades, lying mainly along
the European coast, and the Sporades, which
border the Asiatic side. Most of the Cyclades
belong to the Greek kingdom, while Turkey
chims the Sporades. Many of the islands are
picture-sque in scenery, and all the arable portions
are extremely fertile. The principal productions are silk cotton, honey wines, figs, raisins, tions are silk, cotton, honey, wines, figs, raisins, oranges, and other tropical fruits. Coral and sponge are found among the Sporades, while the Cyclades furnish the pure white marble known as was first worked. Here, also, were found (1627) the Arundel marbles, or Parian chronicle, so replete with historical interest. A peculiarity of the tidal wave is known to navigators in the channel of Negropont (anciently Euripus). tide frequently runs in this channel, in a given direction, at the rate of 6 to 8 miles an hour, and then suddenly, without any known cause, sets in the opposite direction, at nearly the same rate. The climate of the islands is salusame rate. The climate of the islands is salubrious, the inhabitants hardy, and the women noted for beauty. Bordering upon the ancient kingdom of Greece on the west, and upon the seat of "the 7 churches which were in Asia" on the east, the localities of the Ægæan throng with associations, classic and sacred. II. The second in importance is the Indian Archipelago, which includes that extensive insular region of the eastern hemisphere, extending from the south-eastern coast of Asia to Austraitia, embracing the Philippine group, the peninsula of Malay, Sumatra, Java, Borneo, Celebes, and the Molucca and Banda isles, and stretching between the parallels of 10° S. and 20° N. lat. and 95° and 130° E. long. This immense area is hounded by the Chippen can the parallel is bounded by the Chinese sea on the north, and by Australia on the south, and has the Pacific on the east, and the Indian ocean on the west. The climate is warm, the productions various, and important to the civilized world, and the commercial capabilities of the entire group unlimited, though as yet comparatively undeveloped. Throughout nearly all the islands of this archipelago are found gold, iron, coal, copper, tin, antimony, and diamonds, while from its soil are produced cotton, coffee, sugar, indigo, tobacco, and spices. The manufactures are also important. Geologically considered, the Indian Archipelago seems to consist of a

nearly semicircular volcanic chain, around Borneo as a sort of central mass. While Borneo is not distinguished for mountains, a very wellmarked chain of elevation may be traced, commencing at the northern extremity of Sumatra, thence extending S. and E., through Java, Lombok, Sumbowa, Flores, and Timor, where, curving to the north, it strikes the western extremity of New Guinea, whence it assumes a mainly north-westerly direction through the Molucca and Philippine islands to its terminus at the head of the Chinese sea. This entire range is of recent volcanic formation, and many of its volcances are still active. Borneo is evidently the oldest in elevation, having no vol-canic disturbances, and the extensive deltas at the mouths of its rivers, a feature mostly lack-ing to the axis of elevation above described, attests the position assigned it as the nucleus of a circular and progressive upheaval. The population of the archipelago consists of two distinct races, the Malay, and the negro, the latter of which are in the lowest possible state of civilization, and are rapidly thinning out be-

or civilization, and are rapidly thinning out before the former, or brown race.

ARCHITECTURE, the art of construction
or building, may be divided into 3 distinct
branches—civil, military, and naval. It can be
ranked with the fine arts so long only as it is
practised in accordance with the principles of
harmony discovered in nature. The art of building had its origin in the desire implanted in man to procure protection from the outward elements. Each tribe or people constructed, from the materials that presented themselves, such habitations as were best suited to this purpose, and, at the same time, most convenient otherwise. We thus find in countries remote from other nations, and where foreign influences did not exist, an architecture at once singular, and as indigenous as the vegetation itself. The hypogea of the borders of the Indus, the Nile, and the Ganges, the temporary tents of the no-madic tribes of eastern Asia, the oaks of the Grecian forests, fashioned by the ingenuity of man into the humble cabin (the prototype of the primitive styles of the Egyptian, the Gre-ian and the criental structures. Anticry to cian, and the oriental structures. Anterior to the discovery of printing, the monument was the tablet upon which the various races chronicled for posterity the annals of their history. In the simple, unhewn altar, we recognize the genius of religion; we trace in it the germ of the development of human intelligence; it bespeaks faith, ingenuity, ambition. The ancient Babel, and the altars of Scripture—the monutants of Gileal and Gileal of the Holyang. Babel, and the altars of Scripture—the monuments of Gilgal and Gilead of the Hebrews—the Celtic Dolmens, the Cromlechs, the Peulvens or Menheirs, the Lichavens (the Trelithous of the Greeks), the Nurhags, the Talayots, and the Tumuli (the Latin Mercuriales), are all symbols of pristine faith. With the pagan devotee, the art was made to conform to the moral attributes of the character of the deity in whose honor the monument was erected.

With the Greeks various styles of structure were thus instigated, from the early poly-genal formations of the Phenicians, at Astrea and Tyranthus, to the perfections of design, the imposing Doric, the graceful Ionic, and the magmineral Cerinthian orders. Each nation, at every age, possessed its symbolic monuments revealing its conception of the attributes of the Infinite, with the exception of the Persians-who, as we learn from the Zend Avesta, wor-shipped in the open air, and who, according to Herodotus, possessed no temples, but revered the whole circuit of the heavens; and the Assyr-ians, whose Magi interpreted the silent stars, and worshipped the sun. Among such monu-ments, we must reckon as the chief the temple of Solomon, that sublime conception of the spirit of immateriality, true type, in its massive splender, of a higher and purer belief; at Elora, the temple of Indra, sacred to Swargas, the god of other, which, according to the Pura-nas, was designed by Wi-vakama, the stopathi or architect of the heavens. In China, the an-cient Tings, Tans, and Mikosi, were temples of the gods, and the mine in Japan and Siam were sacred structures. The pyramids were symbolic emblens of the metempsychosian creed of Egypt. The Djebel Pharouni, the pyramids of Rhamses, the temples of 1sts and Osiris, and the Metaton, bespeak, in their colossal size, a vast and boundless faith. Athens possessed her Parthenon, over whose magnificence presided Minerva Archegetea, and Rome her Pantheon, "shrine of all saints and altar of all gods." Byzantum was adorned with the altar of a Christian emperor, her St. Sophia, the glory of the eastern church, with its dome, pendentives, and beautiful mosaic. The Casha of Mecca, sacred to the Arab faith, contains the revered stone, changed in its tears from its pristine whiteness to a blackened line, in commemoration of mortal sin; and at which shrine the golden antelopes were consecrated. Ancient Cordova had her mes me, on which the Moors spent the riches of their oriental taste. There is Cologno with its cathodral, the chof d'orecre of the medievalage, the perfection of Gothic art, the revealed conception of a gigantic intelligence, destined by Frederic Barbarossa to be the sepulchre of the Magi who came from the east to adore the Savieur. Modern Rome processes her basilica of St. Peters, on whose sublime structure, amid the visible decadence of classic art, Michel Angelo lavished has genius - Of the early achieves ments and of the progressive steps of the science of architecture, there remain but fragments, though sufficient, with the assistance of history, to teach us their antiquity. The epochs of advancement can be traced, progressively, from the early elements of structure to the more perfacted styles. Throughout the whole globe, we find remains of edifices which proclaim an early Throughout the whole globe, we possession of certain degrees of architectural knowledge. The most remarkable source these primitive structures, save the Celtic monuments, are those supposed to be the works of

the giants or Cyclops mentioned in the Odyr By whom they were erected, however, is unknown, though they have been attributed to the Pelasgians. The walls of their cities, of their sacred enclosures and tombs, were composed of blocks of stone of a polygonal form well passet of mocks of stone of a phygonia form well adjusted. No cement was used, the interstices being filled with small stones. At times they present horizontal layers whose upright joints are variously inclined. Their entrance gates received different forms. The most common being quadrangular composed of upright jambs, either commondiable or inclined automatics. either perpendicular, or inclined, supporting a lintel. Others assume the shape of a pointed arch; the jambs gathering to a point at the summit. Examples also present themselves of truncated pointed archways over the lintel; an arch occasionally being constructed, discharging this member of the superincumbent weight are led to suppose that within their city walls, the habitations were erected without or-der, a place being reserved in the midst for public assemblies. Little is known of their do-mestic architecture, as there exist no vestiges of those palaces so highly spoken of by the an cient poets. Perhaps the most interesting of their structures are their circular subterranean chambers styled treasuries; they present vault-ed ceilings, although not constructed on the principle of the arch—the vaulted form being principle of the arch—the vaulted form being obtained by horizontal annular layers, corbeding inward—the projecting edges of the stones being taken off after the construction was completed. According to Blouet they served for tombs as well as for treasuries. Internally, they were covered with sheets of bronze. At Mycene several examples are to be found.—The most ancient nation known to us who made and considerable progress in the arts of design, is the Babylonian. Their most celebrated monuments were the temple of Belus, the Kasr, and the hanging gardens which Nebuchadnezzar built for his Lydian bride, the wonderful canal of the Nahar Malca, and the lake of Palacopsi From the dimensions of their ruins can be formed an idea of the colossal size of the structures they composed. The material employed in co-menting the burned, or sun-dried bricks,—and upon which hieroglyphics are to be traced, was tains of naphtha and bitumen at the river is near Babylon. No entire architectural monu-ment has come down to us from the Assyriana, whose capital was embellished with the superb Kalla, Ninoah, and the Khorzabad; nor f the Phonicians, whose cities, Tyre, Salon, Arados, and Sarepta, were adorned with equal magnificence; nor from the Israelites, whose temples were wonderful structures; nor from Syrians, the Philistines, and many other nations. Our want of thorough knowledge concerning the architecture of these oriental nations is attributable partly to the innumerable devastations which have taken place on this great battle-field of the world; but to the perishability of the materials that were employed,

such as gypsum, alabaster, wood, terra cotta, and brick, with which their ruins abound, we mast likewise attribute, in part, this ignorance. From recent discoveries, we have been able to see the great affinity existing between many of the works of these nations and those of Egypt and Greece; in their sculptures and ornaments, for example, and in the coloring of the various parts of their structures—which were without coubt polychromatic. Of the very ancient Chinese monuments we have no trace, they having been destroyed by Tsin-Chi-Hoang-Ti upon his secending the throne. Their pagodas are merely imitations of the design of the nomadic tent; while the renowned Chinese wall is among the most wonderful structures of the whole world. We find that suspension bridges existed in China **ta period when they were unknown to other na**tions. Japan, Siam, and the islands of the Indian ocean, abound in ancient ruins once sacred to the divinities of the Buddhist faith. The massive temples of the Hindoos at Ellora, Salsitte, and the island of Elephanta, seem in their awful grandeur like the habitations of giants, on whose land some divine malediction has fallen. The Hindoos, in these colossal structures with their endless sculptured panels, their huge figures, and their astounding and in tricate excavations, evince a perseverance and industry equalled only by the Egyptians. Their pagodas, towering in the air, are likewise wonderful architectural achievements quite as adderin architectural achievements quite as aumirable as their hypogea. The Indian structures are remarkable for their severe and grotesque appearance. Their temples—whether of Brama, the creator of all, Vishnu, the preserver of all—exhibit a striking embodiment of the attributes of the deities in whose honor of the attributes of the deities in whose honor they were erected. A remarkable resem-blance to the Hindoo constructions has been found in the religious monuments or teocallis of and Yucatan.—Egyptian Architectural types of these antique structures, sink into insignificance when compared with those of Egypt. The obelisks, pyramids, temples, palaces, tombs, and other structures with which that country abounds, are on a colossal scale, and such as can have been executed only by a namely for advanced. been executed only by a people far advanced in architectural art, and profoundly versed in the science of mechanics. These works, like the Hindoo structures, were remarkable for their gigantic proportions and massiveness. Intricate and highly painted rilievo sculptures or hieroglyphics covered the entire extent of their walls. The prevailing monotony of the hieroglyphic designs which form the chief fea-ture of Egyptian architectural decoration, was superinduced by the circumscribed and limiting laws of their religion. In Egyptian architecture we trace the elements of the early Indian school, blended with more harmonious combinations, as likewise the introduction of architectural orders. Beside skilled organization of parts, and a just appreciation of pleasing effect, their works in

their colossal features evince a thorough knowltheir colossal reatures evince a thorough knowledge of the geometrical branch of the science of construction. The architectural genius of Egypt lavished its power on mausoleums, and on gorgeous temples to the deities, which, and on gorgeous temples to the dettes, which, in their sublimity, inspire awe. The earliest works of the Egyptians are their hypogea or spea wherein their dead were interred, and which served also as subterranean temples. In these excavations, or caves in the flanks of mountains, square piers were reserved in order to support the superincumbent weight. They were covered internally with hieroglyphics and bas-reliefs, enriched with color. sequently, temples were constructed in the open air. At Amada exists, perhaps, the most ancient example of these temples. It is peculiarly interesting to archeologists, as it forms the connecting link between the superb edifices of the Pharaons and their prototypes, the spea. It also furnishes us with the proto-Doric order, combining square pillars with cylindrical columns. The plan of the temples constructed by the Egyptians is very similar to that of their hypogea. They were generally approached by an avenue, on either side of which was a row of sphinxes, leading to the propylon, before which stood the obelisks, thus forming an entrance into an open quadrilateral court surrounded by porticos. Opposite this entrance was another leading into a spacious hall, whose ceiling was supported by columns. In the rear of this principal hall were one or more smaller ones. The walls, ceilings, and columns were decorated with figures in bas-relief and hieroglyphics richly colored. The colors most generally employed were yellow, green, red, and blue. Their palaces were constructed upon a plan very similar to that of their temples. We know little concerning the habitations of the great the Egyptians is very similar to that of their little concerning the habitations of the great mass of the nation. According to some, houses were constructed in stories, whilst others assume that their temporary abodes were mere huts. This people lavished their wealth upon their tombs, and devoted their lives to the construction Beside their wonderof their eternal homes. ful cities of the dead, hewn in rocks, or embedded in hills, the Egyptians reared their stupendous pyramids, the most gigantic monuments existing. In plan, they are perfectly square, their corners being directed toward the cardinal points, and their sides presenting nearly equilateral triangles. From the immensity of these constructious, some have suggested the proba-bility of the existence of a natural rock or hill within. Whether or not the outer surface was within. Whether or not the outer surface smooth or graduated with steps, when ished, it is impossible for us to decide. constructions of the Egyptians are in granite, breccia, sandstone, and brick, which different materials are adjusted with much precision. The huge blocks employed in their various monuments exhibit a perfect acquaintance with the laws of mechanics. We cannot but wonder at their monolithic obelisks, especially when we reflect upon the immense distances they had to

be transported. The pyramidal shape pervades most of their works; the walls of their temples inclining inward. The jambs to their entrance gates also were generally inclined. The Egyptians rever used columns peripterally even under the dominion of the Greeks and Romans; when the column was used externally, the space intervening was walled up to a certain height. To those circumstances, together with the factors of the summary of weighter with the factors of the summary of the state of the second of th that their monutactits were terraced, can be ascribed their massive and solid appearance. With them, columns were employed to form portions in their interior courts, and also to supwert the earlings. The shafts, of different forms, sengle outsial, or cylindrical, or bulging out at the base, sometimes presented a smooth surface, they were rarely fluted, being gonerally covers i with hieroglyphics. Occasionally, they were in noditis, but were generally constructed in layers an leavered with increasing loss a circulated to the construction. culary buth formed the base. The capitals resem-ble the lottle, at the except a first out at the top; again, the flower appears be did top their assumculary little form of the base. The onjoinals resemble the bottes at the cost spiral first out at the topic again, the fellows shaper about together assimilities the biblions shaper about together as increased forming the about. Offices, of a later date present projecting convex belong whilst outer capitaes are composed of a relianguar back with a teal curved of either size, same sinted by a college ourself. Curvator fairness were about to yearly the Egypt are in his regular stronger years at the establian relie injoined of a stronger with a long of maintest walkers in the vice at a stronger the establian relie injoined with a long of maintest walkers in the vice to the many of long receiving and the same of the walkers and the same of the first process of the walkers of a collection of the first process of the walkers of a collection of the first process of the walkers of a collection of the first process of the walkers of a collection of the first process of the walkers of a collection of the first process of the walkers of a collection of the first process of the walkers of a collection of the Trial Control of the Control of chemps a summer and the six -The tire-

cian temple consisted of a promace or vesti-bule, and a mass or cella. These sometimes were accompanied by an opisthe-lonnes, expposed to be the treasury, together with a rear portico, or posticum. According to the disposition of the columnar decoration, they were styled in antis, priestyle, amplipriestyle, perip-teral, dipteral, pseudo-peripteral, or pseudo-dipteral. The principal front of those in antis dipteral. The principal front of those in antispresents columns in the middle, with antepresents columns in the imitate, with animous either side, supporting the poliment: in the prostyle, the ante are replaced by columns; the amphiprostyle presents a similar disposition in the rear as well as the front: the peripteral presents columns forming a pertice around the presents commiss forming a portice and in the cellar, when the lateral columns were engaged instead of isolated, the temple was styled pseudospripteral; the dipteral off-red a double columnals around the edha; in the pseudo-dipteral, one of the ranks of columns was engaged in the wall. They are termed terms to the the coloniale around the collar in the pseudo-dipteral, one of the ranks of columns was enumed in the wall. They are torned terraty he hexistale, estastyle, according to the number of columns supporting the pesiment.— Their temples were generally cleft crail or concends those exceted in honor of superior deities were bypetherall or open to the skies. In these latter, the colla was divided longitudinally into 3 mayes by a double row of columns, which supported the rost is verify the side asses. In order to save ros in these rows of columns, which supported the rost is verify they were excited to attain the desired fearth with solumns of a less dimeter. The columns of the prities were such the desired fearth with solumns of a less dimeter. The columns of the prities were such the latter of the columns who was effected to the ration the columns were laboured in cases often the shortly roll not as were laboured in the second with the columns of the ration of the rost as were laboured in the sample of the prities distributed by the colon of the rost as a finish the ration of the state of the columns who was effected to consider the ration of the such as a finished the state of the columns to the same in the same in the same in the same in the same was a such as a finished by the columns were the columns to the ration of the same was a finished by the columns and the same of the ration of the same of the ration of the same of the ration of the same and the same of the ration of the same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same and the same of the ration of the same same same and the same of the ration of the same same same and the same of the ration of the same same sa

hill. Of the choragic monuments, that of ymicrates at Athens is the finest example; pon a quadrangular basement, was placed a ylindrical monument with engaged Corinthian stamms supporting an entablature surmounted with a heartiful acroteral y a dome crowned with a beautiful acroteral otive, upon which was supposed to have been seed a tripod.—Their agoras, or public places a seembly, were surrounded by portices decrated with paintings, commemorative of glooms achievements. Within the enclosure were ous achievements. Within the enclosure were supples, alters, and statues dedicated to their strees. We know little of the architectural rangement of their gymnasiums, which con-imed the halls, porticos, and exedres, where we sages taught their different philosophies; weir baths, accompanied by their dependencies, bout which were disposed the stadium, and marts for various gymnastic exercises. It is knowing difficult to obtain any accurate idea of architectural disposition of their domestic abitations, as no examples remain. The beau-rand grace which pervade all of their works, thether monumental, mechanical, or indus-rial, lead us to suppose that, although impers regards comfort, they must yet have ex-ed a certain degree of elegance. A just ibited a certain degree of elegance. A just lea of the mouldings and ornaments, une-nalled for their purity and grace, can be ob-tined only from personal observation. It is sible, from any verbal description, to impos e able fully to appreciate the beauty and har-nony of their different styles. It may be well, any of their different styles. It may be well, owever, here to lay down some general priniples.—These styles may be classed in systems rorders: the Doric, Ionic, and Corinthian. hey also employed, though rarely, caryatides. mumerable conjectures exist concerning the rigin of these different orders. In all probability we are indebted to the Dorians for the avention of the Doric; although Champollion ess in an Egyptian order, which he styles the roto-Doric, the type of the Grecian order of that name. The oldest example extant is at Cornth.—To the Ionians likewise, is attributed nth.—To the Ionians, likewise, is attributed he honor of having first employed the Ionic rder, no example of which is to be found in treece, prior to the Macedonian conquest. As or the origin of the Corinthian, without wishng to discredit the interesting narrative of Viravius, wherein he accords to Callimachus the avention of the Corinthian capital, it might be rell to state, that foliated capitals of much reater antiquity than any discovered in Greece, re to be found in Egypt and in Asia Minor. he most perfect Grecian example of this rder is employed in the choragic monument of yaicrates.—Little doubt need be entertained as ysicrates. o the Greeks deriving the idea of their caryo the Greeks deriving the idea of their cary-tic order from the Egyptians, who often em-loyed human figures instead of columns in heir structures.—The Doric holds the fore-nost rank among the Grecian orders, not only a account of its being the most ancient, the nost generally employed, and consequently the nost perfected; but more especially because of

its containing, as it were, the principle of all their architecture, as well as an exact imitation of all the parts employed in their primitive constructions, which were undoubtedly of wood. Thus we see the post represented by the column, the wall-plate by the architrave, the extremities of the joists by the triglyphs; the rafters naturally produce the projection which composes the cornice; while the double pitch of the roof gives us necessarily the form of the pediment.—This style, typical of majesty and imposing grandeur, was almost universally employed by the Greeks in the construction of their temples; and certainly monumental art employed by the Greeks in the construction of their temples; and certainly monumental art does not furnish us with the equal of a Greek peripteral temple.—The Grecian Doric may be divided into 3 parts: the stylobate, the column, and the entablature. The stylobate is formed by 8 receding courses, together about equal in height to the inferior diameter of the column, which dimension is generally used as a measure of proportion in describing the orders. On the uppermost course stands the column, from 4 to 6 diameters in height, and whose diameter at top is about three-fourths of that at base; the shaft thus assuming a conical shape (which diminution, in a slightly curved line, is styled erragis), generally bears 20 shallow flutes, their sections forming segments of circles, or similar curves which meet and form a sharp anis. At the bear these flutes detail on the reverse at the base these flutes detail on the pavement; they pass through the hypotrachelium, and terminate beneath the anulets of the capital, either in a straight or curved line. Upon the shaft is placed the capital, nearly one-half of a diameter in height, composed of an abacus, or square tablet, about 11 diameter in width, and one-fifth in height. This member is supported by the achieue of about the same height when by the echinus, of about the same height when there is a necking, but occupying a greater pro-portion when none exists. This echinus or portion when none exists. This echinus or ovolo bears 3, 4, or 5 rings at the bottom, where it dies away in the shaft.—The axes of the columns were slightly inclined. According Villeroi, in a rectangular temple, planes pa through the centres of the columns would meet in a straight line; in a point, if the plan of the temple were square; the columns at the angles following in both cases the direction of diagonal lines. This inclination does not commence until the second course, or about one-tenth of the height of the column, if monolithic. The first course being an oblique truncated cone, determines the angle of inclination; the remaintruncated cones, perfectly adjusted one to the other. The inclination of each column is proportional to the distance, to the line joining the foci, if the monument be rectangular, or to the centre of the plan of the editice, if square Thus the columns at the necket are the most in Thus the columns at the angles are the most inclined, those in the middle of the sides the least.—The entablature, about 2 diamaters in height, is subdivided into 3 parts: the architrave, the frieze, and the cornice. The architrave occupies about two-fifths of the whole

height, being perfectly simple, crowned by the tenia or continuous fillet, one-tenth or one-twelfth of its entire height; below this fillet, under the triglyphs, is a regula, of the same height, from which depend 6 cylindrical drops. The face of the architrave is generally in a vertical plane tangent to the base of the columns. The frieze, of about the same height as the architrave is terminated on ton by a newthe architrave, is terminated on top by a pro-jecting fascia, occupying about one-seventh part of its whole height, which breaks around the triglyphs, where it is slightly increased in depth. Horizontally, the frieze is subdivided into triglyphs and metopes, which regulate the intercolumniation in the following manner: A triglyph about one-half a diameter in width, is placed exactly over the middle of each column, and one in the intervening space. They are separated by the metopes, which in width are equal to the entire height of the frieze. This distribution differs, however, at the angles; here the outer edge of the triglyph is in the same perpendicular line with the circumference of the base. Thus the first intercolumniation, counting from the angles, is contracted. The Greeks also gave a greater diameter to the columns at the angles. The triglyph is subdivided into 2 glyphs, each one-fifth of the whole width (a triangular fluting or channel formed by the intersection of 2 vertical planes inclined inward from the face of the tablet) of 2 semiglyphs, and 2 interglyphs, each one-seventh of the entire width. The glyphs detail on taenia. Above they are sometimes square-headed, sometimes curved; the semiglyphs finish with a curve at the top. The surface of the interglyphs is in the same plane with the architrave. The methe same plane with the architrave. The metops a recode from the triglyphs, and were oftentimes decorated with sculpture.—The cornice, projecting about its own height, is composed of a corona, about one-half of the whole height, crowned by a square fillet supported by a congeries of mouldings, together about one-half of the height of the corona, which latter has on the lower edge a sunken face bearing the mutules and guttle, which form the soffit or plane er of the cornice, inclined up inward at an angle of about 30%. The mutules are placed an angle of about 30°. The mutules are placed directly over the triglyphs and metopes, and are exactly equal to the former in width. They are ornamented with 3 rows of cylindrical drops. The height of the pediment is generally about 14 diameter. The cornice crowning inclined sides of the tympanum, differs from the horizontal one at its base, inasmuch as the mutules are left out, and another member suerimposed, which is either an evolu with a filler, or a cymatium, economic a space equal to about one half the depth of the cornice with its mutules. The tympanem was often decorated with sculpture. The flank cornice supportsed antifixe, an ornament used to cover the ends of the joint tiles of the roof. The ante or pil-asters, rearly equal in diameter to the columns, did not diminish at the top, nor were they fluted like the columns; they generally had a conge-

ries of mouldings at the top and the bottom. The Greeks never employed peripterally any other than the Doric order.—The Ionic, remarkable for its grace and suavity of proportions, holds a juste milieu between the simple Doric and the rich Corinthian order. According to some, it was originally employed in funereal edifices. At Telemissus, in Lydia, are to be found tombs cut in the rock, which invariably offer examples of this style; moreover, on the Grecian vases the representation of the Ionic column is symbolical of a sepulchral monument. order, as well as the Corinthian, is more tractable than the Doric. Like the latter, it is composed of stylobate, column, and entablature. The column has a base as well as a capital, and is about 9 dinmeters in height. The base, about one-half a diameter in height and 11 in width, is composed of a torus resting on the stylobate, a scotia and a second torus, all about equal, and separated from each other by a fillet, one also finishing the apophyge, or ape of the shaft, which diminishes with entasis about one-sixth of a diameter, bearing 24 flutes deeper than in the Doric column, and which are separated from each other by fillets. These flutes finish in same curve above and be-The capital is about one-half of a diameter in height, when unaccompanied by a necking; when one exists, it is about three quar-ters high. The volutes carved on faces of a parallelogramic block, and connected at sides by bolsters, and in front by flowing lines, are supported by a congeries of mouldings, composed of a head and ovolo. Superimposed is an abacus. These volutes are a full half diameter in depth, and extend in width about one diameter and a half. When this capital is ac-companied by a necking a torns is introduced companied by a necking a torus is introduced in corbel mouldings, supporting the volutes, and the necking itself, ornamented with the honeysuckle and tendrils, is separated from the shaft by a fillet, or a bend. The outer volute of capital at the corners is inclined at an angle of 45°, so as to present a volute when viewed from either side; internally the two volutes meet at right angles.—The entablature, a little over two diameters in height, is composed of architrave, frieze, and cornice. The former occupying about two-fifths of whole height, contains three equal fascias, slightly projecting one beyond the other, the lowest one a plane tangent to the inferior circumference of the column. On the upper edge of the architrave are a few corbelling mouldings compra-ing a little less than one-quarter of its whole The frieze is of the same height with the architrave, recedes slightly, and is either plain or ornamental with sculpture. The prosection of the cornice is about equal to its height. It is composed of bed-mouldings underentting the corona; this latter is of breadth, and the crown mouldings are of much less importance than in the Doric. The pediless importance than in the lboric. The pedi-ment of this order is also rather lower, and its cornice is crowned by a rectangular fillet

surmounting small mouldings. The interco-lumniations differ from 2 to 8 diameters.

—The only example of the Grecian Corinthian to be found in the choragic monument of Lysicrates, which is a small circular structure decorated with engaged Corinthian columns, placed upon a high rectangular basement. This corlor is composed of a stribbte a column order is composed of a stylobate, a column, and entablature; the former occupying in height a little more than one diameter. The column a little more than one diameter. The column is about 10 diameters high, has a base somewhat similar to the Ionic, between one-third and one-half of a diameter in height, and in width rather more than one diameter and onehalf. The shaft, whose top diameter is about five-sixths of that at the base, bears 24 flutes nearly semicircular, terminating at the bottom in the same curve, and at the top in leaves, the fillets forming stalks. The capital separated from the shaft by a groove, is a little more than 1½ diameter in height. Its cylindrical body is surrounded at the better drical body is surrounded at the bottom by a row of water leaves occupying about one-sixth of the entire height. Above them exists a row of the entire height. of acanthus leaves twice as high as the former, seemingly buttoned on. Between this second row and the abacus are helices and tendrils, the latter supporting honeysuckles in the middle of the abacus, which member is about one-seventh of a diameter in height, and in plan presents a square with concave sides whose angles are cut off at 45°; its section presenting a fillet, on which reposes a cavetto and an ovolo separated by another fillet. The entablature is about 2 diameters and one-quarter in height, of which the architrave and cornice occupy separately rather more than one-third, and the frieze rather less. The architrave is divided into 3 equal fascias, inclined inwardly sufficient to bring the outer edges in the same plane with the inferior diameter of the column; these fascias together are crowned by corbelling mouldings being one-sixth of the entire height. The frieze is slight-inclined also and is sculptured. The projection ly inclined also and is sculptured. The projec-tion of the cornice is about equal to its height. The bed mouldings have about two-fifths of this The bed mouldings have about two-fifths of this projection, and occupy five-eighths of the entire height of the cornice, undercutting the planeer. Their principal feature is a dentilled member, it being more than one-quarter of the whole cornice in height. The height of the corna is only three-eighths of the cornice, and nearly one-third of this is taken up by the recogning evals and fillet. In this example the crowning ovolo and fillet. In this example the cornice is surmounted by a cut fascia supporting antifixs, somewhat similar to those employed on the flanks of Doric and Ionic temples. The intercolumniation is 2½ diameters.—
In the example offered us at the Acropolis of Athons the corneridae stand on a graceholic Athens the caryatides stand on a stereobatic dado, placed on the stylobate; the antæ bear the mouldings of the temple to which they are attached, forming base mouldings to dado which has also a cornice. The entire height of the stereobate is about three-fourths of that of the figures, taken together with their base and cap-

ital: the former is a square tablet or plinth, the latter a circular moulded block crowned by an The entablature is about two-fifths of the height of the figures, and is nearly equally divided between architrave and cornice. The upper of the 3 fascias of the architrave is ornamented with circular discs. The cornice is composed as usual of bed-mouldings, corona, crown-mouldings, the former with dentilled member forming about two-fifths of the whole height.—Etruscan Abohitzoture. The extreme obscurity of the Etruscan history has rendered it difficult for antiquarians to decide any thing positive in relation to the origin of that people. In addition to the indigenous Etruscans, we find an admixture or blending with the Pelasgic or Grecian colonists, who settled in Italy, according to Micali, during the century preceding the Trojan war. The polynomial of th gonal formations observed in the walls of Etruria belong to the Pelassian in ria belong to the Pelasgic civilization, and are similar to those of Hellas and of Asia Minor.— The commercial relations existing between the Etruscans and the Hellenes of Asia Minor and Magna Græcia, account for the existing similitudes in their artistic productions. The ceilings of the hypogea, hewn so as to represent cais-sons, tend to corroborate the idea that their earliest structures were of wood, which, with them as with the Greeks, became the archetype of their structures in stone. To the Etruscans the invention of the arch, constructed on its true principles, has been generally attributed, as like-wise the composition of an order styled Tuscan, a species of simple Doric, no entire example of which, however, has been handed down to us by the ancients.—ROMAN ARCHITECTURE. The history of Roman architecture, under its kings and at the beginning of the republic, is somewhat obscure, as but few of the monuments of that period remain. The Roman kings fortified the city, and erected various palaces, temples, and tombs. It became adorned with colossal works of art, whose stupendous features forming such a conwhose stupendous leatures forming such a contrast with the comparative insignificance of its power and condition would seem to indicate that the future of imperial Rome had been foreshadowed to its people. The early Romans shadowed to its people, employed Etruscans in employed Etruscans in their works. When Greece at length fell under the yoke of the Roman empire, Rome became enriched with the spoils of Athens. The Greek artists sought protection and patronage among their conquer ors, and adorned the imperial capital with structures which called forth unbounded praise. The Grecian style was blended with the Etruscan during the more early period of the Roman school. But as the arch, which was the char-acteristic feature of Roman architecture, revealed its treasures, the Grecian elements were employed but as a system of ornamentation. Thus, oftentimes, the column no longer served as a support, but was merely used to decorate the pier or wall from which the arch sprang. Great discussions have arisen, and still arise, as to who were the inventors of the arch. In

Etruria are found many monuments wherein its design exists, and which are of an anterior date to the construction of the clouds maxima (wherein it is fully developed), and even to the foundations of Rome. Whether the Romans foundations of Rome. Whether the Romans have a just claim to the discovery of the arch, it is impossible to say positively; it is more than probable, however, that the arch origiwith the Etruscans, but owed its useful ition to the Romans. With its introducapplication to the Romans. tion came various important modifications in Arcades were substituted for architecture. lintels. With the assistance of the arch great paces could be covered, and the various combinations of vaulted ceilings naturally ensued,-The early Roman structures were of stone. Subsequently the mass of the constructions was of brick, externally decorated with slabs of marble, and similarly decorated internally, together with stucco work. Bricks seem to have been used by the Romans, partly in consequence of the facility offered by this material for the construction of the arch, and partly because they had but little marble. It has been supposed that the necessary economy of the material used in building developed the mechanical powers of the Romans, and that by this taxation of their ingenuity they discovered the principles of the arch. No nation presents so principles of the arch. No nation presents so great a variety in their constructions as the Roman. Stone, terra cotta, bricks, and marble, were ingeniously put together in verious ways. They were especially renowned tor their hydraulic works. The editiess of the Romans display a taste for the luxurious and the magniticent rather than for the harmonious and beautiful, which sentiments pervade the Grecian monuments. In their interiors especially are we struck with the gorgeousness of their decoration. Their exterior pavements were variously composed of stone, tiles, marble, porphyr, and other durable materials laid in cement. Inter-nally their floors were similarly laid in mosaio work. This style of work is supposed to have work. This style of work is supposed to have originated among the eastern nations, subsequently being employed by the Egyptians, Greeks, and Romans. Their walls were stuccosed and decorated with paintings in the arabseque style, or covered with various marbles, allabater, and juspers, while their columns also were of granite, marble, and porphyry. This luxury strikes us the more forcibly, as these apartments so richly adorned and containing various chefost curre of art, were but very imperfectly highted; in fact, they were sometimes wholly dependent upon lamps. This, too, is one of the claring defects in their dwellings, as one of the claring defects in their dweilings, as can be clearly seen at Pompen. Their houses generally presented an entrance on the street, accompanied by sleeps, if in a principal thorough-fare, bearing into an arrism or court, with compliance in the middle and portices on the sides connecting with the rooms occupied by the ser wits. This court connected with another in the rear also surrounded by a portice, which led to the marriments of the master. co, which led to the apartments of the master.

But nowhere is this taste for richness rather than simplicity more evident than in comparing the details and mouldings of these two people. It is due them, however, to make an exception in favor of their Corinthian order which they employed as universally as did the Greeks the Doric, and to their structures must we turn for many of the finest types of this order. column varying in height from 93 to 10 diame-ters is composed of base, shaft, and capital. The base, about one-half of a diameter in height, in some cases consists of 2 tori and a scotia with intervening fillets, placed upon a plinth as in the examples of the temples of Antoninus and Faustina, of Vesta and of Assisses; whereas, in the temples of Jupiter Tonans, of Castor and Pollux, and in the portico of the Pantheen, there exists a double scotia. The shaft diminishes with entasis about 1 of a diameter, and is compatible fluctual where the control of the compatible fluctual where the control of the compatible fluctual where the control of the con is generally fluted when the material permitted. These flutes were semicircular, separated by fillets, one-quarter of their width, and 24 in number. At the upper extremity, the fillet above the cavetto supports a small torus, on which rests the capital, about one diameter, and in height, composed of 2 rows of 8 acanthus or olive leaves. The lower row, about ! taller or olive leaves. The lower row, aroung than the upper one, occupies about 1 of the capital. The leaves of the capital of the c aves of both finish on the hypotrachelium. Above are helices and tendrils trained with foliage, surmounted by an abacus, composed of a cavetto, fillet, and ovolo forming together I of the entire height, and which in plan pre-ents a square with the corners cut off; the sides being concave segments of circles, in the middle of each of which is placed a flower or resette.

The entablature is about 4 of the column in height, 3 of which being occupied by the architrave, together with the frieze. The former trave, together with the frieze. The former being divided into 3 unequal fascias, generally separated by a bead and a cyma-revision the crowned by a small congeries of modding the first fascia impending the shaft at top. The frieze is generally enriched with sculpture. The bed mouldings of the cornice, when decorated with modillions, occupy about 3 of the total with modulous, econy arout j or the total height; when no modificons exist, only one-half is taken up by them. They generally consist of a bead, a cyma-reversa, and a fillet, a vertical member dentilled or not, another bead and an ovolo, supporting a plain vertical face, 4 of mouldings in height, which bears the modillions, and which is surmounted by a cyma-reversa, which breaks around the same. The modificas are horizontal consoles, in width equal to their height, bearing large volutes at inner end smaller ones at the outer extremity, joined by a graceful curve, underneath which spreads an acanthus leaf; the space between them is about twice the width of the modillion itself. Resting upon the modillions is the corona sur-mounted by a small congeries of mouldings, a cymatium, and a fillet. The planeser of the corona is coffered between the modillions, in the centre of each is placed a rease.—The com-

posite order may be considered as a sort of Corinthian, as the principal difference exists in the capital, where the volutes occupying about one quarter of the total height rest upon a bead and ovolo; the central tendrils are also omitted, and the upwer row of leaves is higher than in and the upper row of leaves is higher than in the ordinary Corinthian. Beside this particular composite capital, the Roman monuments furmish us with others ornamented with trophies, eagles, masks, &c. The pediments of the Roman edifices were steeper than those of the Grecian. The cymatium of the same was continued along the flank cornices, thereby doing away with the antefixe. The Doric order, on account of its simplicity, was very rarely em-ployed by the Romans. In the few examples ployed by the Romans. In the few examples which have been preserved, the proportions are more slender, the projections less hardy than in the Grecian Doric; and, in endeavoring to give it more elegance, this order lost with the Romans its simplicity and grandeur. At Al-bano an example has been discovered where most of the mouldings are ornamented. baths of Diocletian furnish us with still another example greatly enriched. The necking is ornamented with small rosaces, the echinus is sculptured with leaves, the metopes and corona are also enriched with sculpture, while the cornice resembles that generally employed in the Ionic order. The best examples of this order, handed down to us by the Romans, decreate the temple of Hercules at Cora, and the theatre of Marcellus at Rome. In this letter theatre of Marcellus at Rome. In this latter example, the column composed of shaft and capital is about 8 diameters in height. The capital, occupying about one-half of a diameter in height, may be divided into 3 nearly equal parts. The uppermost given to the abacus of less projection than in the Grecian examples, less projection than in the Grecian examples, is crowned by a cyma-reversa and fillet; the ovolo supporting the abacus is a semi-torus resting on 3 fillets, occupies the middle division, whilst the lower third is taken up by a necking which is separated from the shaft by a small torus and fillet. The shaft, less conoidal than in the Grecian examples, is without flutes, the superior diameter being about four-fifths of the diameter at the base. The total height of the entablature is about one-quarter of that of the entablature is about one-quarter of that of the column; its projection is about equal to its height. The architrave is one-half of a diameter in height; the frieze one diameter and onehalf. The principal difference in the distribu-tion of the Grecian and Roman Doric frieze is in the position of the triglyph over the column at the angle. The Romans preserved the same intercolumniation throughout, and placed the triglyph directly over them, thereby forming intercolumniation throughout, and placed the triglyph directly over them, thereby forming half metopes at the angles. In the cornice the bed-mouldings occupy more height than in the Grecian types, and are composed generally of a cyma-reversa, dentil, and ovolo, separated by fillets. The corona is of less importance, it being sacrificed to the cymatium, which in return is of more value than in the Grecian Doric. The planceer generally bears mutules,

though sometimes these latter members are dispensed with. The only examples of the Ionic order in ancient Rome are to be found in the two temples near the theatre of Marcellus, in the temple of Manly Fortune, in the baths of Displacing in the Colorum, and in the baths of Diocletian, in the Colosseum, and in the upper order of the theatre of Marcellus. The total height of the columns varies between 8 and 9 diameters. The base, about one-half of a diameter in height, is composed of a torus resting on a plinth, a scotia and a second torus; the three upper members have fillets intervening. The shaft slightly increased in diamthe three upper members have finets inter-vening. The shaft slightly increased in diam-eter at one-third of its height, is either plain or fluted; in the latter case the flutes, separated by fillets, are semicircular, and are 20 in num-ber. The diminution of the shaft varies between one-eighth and one-tenth of a diameter. The capitals, occupying about one-half of a diameter, vary; those of the theatre of Marcellus, and of the temple of Manly Fortune, are without a necking. The volutes connected by horiout a necking. The volutes connected by horizontal instead of curved lines are bolstered, and zontal instead of curved lines are bolstered, and the abacus crowning the volutes is composed of a cyma-reversa and a fillet. In the Ionio capitals of St. Lawrence at Rome (generally thought, formerly, to have belonged to the temple of Jupiter and Juno), there exists a necking. The temple of Concord presents still a third species, the volutes being doubled and inclined at an angle of 45°. The height and projection of the entableture are nearly equal projection of the entablature are nearly equal, varying between one-quarter and one-fifth of the height of the column. The architrave and frieze are equal in height, and are a little less than that occupied by the cornice. The frieze is either with or without sculpture. The bedmouldings of the cornice generally consist of a cyma-reversa, a dentil course, and ovolo, separated by fillets; together occupying rather less than one-half of the entire height of the cornice; the corona and crown mouldings, with the cymatium, complete this order. The whole of the Roman possessions were covered with massive structures which embodied the Roman spirit of defiance and the supremacy of the conqueror. But the gigantic features of Roman architecture were revealed in all their glory within the precincts of the Seven Hills; and although Antioch and Baalbec were adorned with architectural masterpieces, as well as parts of Africa and Palestine, and the greater part of western Europe, still the powerful and vital essence of Roman art shone with its most dazzling magnificence in the plains of the classic Campagna. It would be in vain to attempt to describe the various constructions of utility and splendor with which Rome and her possessions were covered. We find everywhere in her were covered. We find everywhere in her own limits and in her possessions, roads, aqueducts, bridges, ports, forums, basilicas, temples, mausoleums, palaces, baths, theatres, amphitheatres, hippodromes, naumachias, triumphal arches, cloacas, prisons, fountains, cisterns, monumental columns, villas, grottoes, and markets. During the reign of Augustus, Rome was

adorned with its beautiful Pantheon, and Asia was endowed with many beautiful structure and Athens itself became embellished with the famous temple of Jupiter Olympus. The baths, or therms, of Augustus, Nero, Titus, Caracalla, and Diocletian, were renowned for a magnificence which was hardly surpassed even by their palaces. In fact, throughout all the Roman structures, from the palace of the Cassars to the vallas of Adrian, Sallust, and the epicure Lu-culius, the greatest display of splendor and luxury prevailed. But, of all their structures, perhaps the most stupendous was the Coloseum, the Flavian amphitheatre, capable of containing more than 100,000 spectators. It was partially destroyed by Robert Guiscard the Norman, in 1084, from his having conceived the idea that it was to be used as a citadel against ham. Though from the ruins the popes have taken sufficient material to construct the palaces of the Farnesa, the Cancellaria, and that of St. Marks, still the cragged and crumthat of St. Marks, still the cragged and crum-bling remains are gigantic and imposing. —Anountmertus of the Mindle Ages. But the spirit of classic art seems to have waned with the glory of the Roman empire. The science of building became perverted, and the fame which the Romans had attained in architecture became a memory only. Christianity with its regenerating power revived the spirit of religious zeal which again became, as in olden times, the instigator and prime motor of artis tic embodiments of adoration, and the imperial basilea became the temple of the most high God of the Christian. The architecture of this period was composed of Greek and Roman deails, combined under new models and forming structures wholly different from the antique originals. Through many successive centuries, the Roman school of art continued to suffer changes. From the fragments of ediffices which were torn down to form new structures, arose combinations at once singular and corrupt. The transition styles which then prevailed were, from their characteristic peculiarities, designated as the Latin, the Byzantine, the Lombard, the Sax in the Norman, and the Romanesque, together known as the old Gothic. During the together known as the old toothie. Puring the 4th century architecture had reached the very acme of its decadence. In the religious edifices of this period marked evidences exist of an utier want of artistic feeling. The sterling principles which had been the glory of Roman and tirectian schools, were either forgotten or not understood. Encouragement to artists was not wanting, for Constantine repaired the ancient manuscript and constructed others. The brees monuments and constructed others. sums appropriated by this emperor for the estation into the far intertural schools throughout his dominions, could not have failed of the happiest results, had not the faste for artistic beauty disappeared to make room for that of a meretraction splendor. Great liberties were taken during this period with all the architectural moments. Arches with and without archi-bants were made to spring immediately from

the capitals of the columns. Orders were superimposed with broken entablature; in fact, the latter member was altogether done away in some cases. Grace was wanting in the mouldings and sculpture; the different orders were employed in the same peristyle, and the whole school of architecture became the prey to the general system of innovation which then existed. It appeared to disencumber itself of the thraidom of traditionary rules, and to seise, as if at random, upon designs which seemed to meet the exigencies of a new faith. but whose social exterior was still pagen. This condition of things continued under Constantine when the arts dwindled into comparative insignificance. During this state of things, hordes of barbarians invaded every province of the empire. This universal conflict was not calculated to give a new impetus to architectural art, nor to promote its progress. Italy, how-ever, under the Goth and Ostrogoth rule evinces in some measure a renewed architectaral zeal. Theodoric repaired the walls and drains of Rome, reorganized the Comities Romans (who guarded day and night the monumental structures of the capital), and by his own devotion to the arts, together with that of his daughter, Amalasontha revivified the spirit of a fast perishing craft.—After the transfer, by Constantine, of the imperial seat to Constantinople, the arts were again succe-sfully cultivated by the Greeks, who made free use of the architectural treasures left by the ancients. Then appeared the dome, the glory of the Byzantine school, supported by its pendentives highly ornamented with mosaic. This principal feature of the Byzantine school, induced their architects to abandon the Latin cross (which form had gradually grown out of that of the Boman basilica), in the plan of their churches: introducing, instead, the Grecian the architectural treasures left by the ancienta cross, whose branches are of equal length. The central dome no longer rested on circular walls, but was borne by 4 arches resting on pillars placed at the 4 angles, in plan. Pendentives were introduced in order to sustain the circular dome, as otherwise the triangular space in the 4 corners would have been left without support the diameter of the dome being equal to one of the sides of the square. In some cases the corner pillars were square, presenting an angle only at the corners, thereby giving an extraor-dinary degree of lightness to the structure. The semicircular arch of the Romans was often clongated, in order to attain an equal height with different spans. The dogmas of the lowoclasts obliged the architects to seek some other means of enriching their temples; hence the profusion of mosaic work. Their sculptured ornaments represented foliage in bas-relief, and interlaced lines. The capitals of the columns interlaced lines. The capitals of the columns were square blocks similarly carved, tapering down at angles to join the circular shaft. In their style of decoration, as well as in various other particulars, they seem to have

Orders were super-

en influenced by the Mohammedans. Under Names and Belisarius the dome was introduced into Italy and was seen adorning their edifices. The Byzantine style, whose chief promoters were Anthemius of Tralles, and Isidorus of Milos, became the basis of the modern Persian. has, became the basis of the modern Persian, Russian, and Moslem schools. We find its pe-culiarities existing during the middle ages in Greece, Italy, Sicily, Spain, Arabia, and India. Among the chief edifices of the Byzantine chool may be instanced that of St. Marks, at school may be instanced that of St. Marks, at Venice, that of St. Vitalis, at Ravenna, and that of St. Sophia, at Constantinople,—the latter being one of the most magnificent of the eastern empire. The Araba, the Saracens, and the Moors, introduced into Europe certain forms of architecture which, though differing in very many features from the classic styles, were still founded on the america of the Gregien school founded on the remains of the Grecian school, blended with the oriental elements of the By-The chief peculiarity of these styles was in the form given to the arch. The Sara-cenic arch was of greater depth than width. The Moorish style was distinguished by arches in the shape of a horseshoe or a crescent. Saracens and Moors are, however, so completely one people, that it is with difficulty that the differences of their essential features can be dis-criminated. Their mural ornamentation, styled arabesque, presented more varied designs of graceful and ingenious combinations of geometrical and floral traceries than had before been known. The reproduction of animated forms was prohibted by the sacred laws of the Koran. Another striking feature of this school is the peculiar way in which they ornamented their pendentives, by a series of small columns with little niches placed one above another, covering not only the surface of the inner, projecting angles, but forming at times the super-entablature of the edifice. The numerous mosques, palaces, bazaars, tombs, and other edifices of the Moslems, existing throughout various parts of Europe, Asia, and Africa, attest the great similarity existing between this style and the Byzantine; this is attributable to the employment of Greeks on their works. A fact worthy of note, also, is that the Moslem structures furnish examples of the pointed and ogean arches, whence according to many they were brought into Europe.

The Lombards having possessed themselves of the Venetian territory toward the middle of the 6th century, there founded their kingdom, which lasted until 974, when Charlemagne subjected Italy to his power. Converted to Ca-tholicism, the Lombards adopted the arts of the people they had vanquished; and, as in Lom-bardy there existed but few ancient temples bardy there existed but few ancient temples whose materials could be employed in other structures, we find them originating a complete and systematized style, which at length pervaded all districts where the Latin church had extended its influence; the people of each country where it was introduced modifying it to suit their climate, customs, and wants. Its

branches are variously known as the Saxon, Norman, Merovingian, Carlovingian, &c., which, together with the Teutonic, Moorish, Moorish which, together with the leutonic, moorish, and Saracenic, were styled old Gothic, and out of which grew the pointed style, after the introduction into Europe of the pointed arch. During this epoch, plain, banded, fluted, and polygonal columns, in spiral or zigzag, were clustered, broken, or knotted together. Their capitals were foliated or had various grotesque animals backs of animals, which replaced the pedestal.

Every license was taken with their entablature. even to the suppression of it altogether.

Against the jambs of arched openings were often placed numerous columns supporting the arched mouldings. Oftentimes a greater arch encompassed several smaller ones, supported by encompassed several smaller ones, supported by pillars which intersected each other in various ways. Their openings were quite elongated and often accoupled; the circular window, or rose, was also very frequent in their frontispieces. Semicircular, elongated, flat, horseshoe, and folled arches are to be found, ornance and could be account of the county of the coun mented and simple, and serving either as a decoration, crowned their walls, or supported horizontal bands, dividing into panels their walls, which were likewise panelled off by long pilasters or flat buttresses. The angles of their churches (generally in plan in the form of the cross) were often surmounted by a sort of pin-nacle. Ribs are also found in their vaulted eilings. Towers first accompanied the church-s, later they formed a part of the same edifice, ceilings. es, later they formed a part of the same edifice, flanking or decorating the middle of the facades. The earlier examples were square, afterward round, and subsequently of a polygonal form. The roof, assuming a more and more pointed shape, approaching the form of the spire, as it was introduced in countries where the climate was more severe. The monasteries and convents generally contained an interior court surrounded by porticos, about which were placed the cells of the inmates. The lower stories of the royal palaces and town halls er stories of the royal palaces and town halls also presented a similar disposition. External porticos, or lodges, also existed. During this period it is supposed that the construction of houses in stories became general.—The habitations of the mass of the people were poor and irregularly planted about the town hall, in the cities, or clustered about those massive structures (the feudal castles) erected as fortresses, tures (the feudal castles) erected as fortresses, into which the arrogant possessor might retire, and whence he might sally to harass the country at pleasure. These edifices consisted of a main tower, or keep, the walls of which were from 6 to 12 feet thick, with windows, consisting of holes 1 or 2 feet wide, placed at irregular intervals. The several floors were constructed on arches; the roof was flot or had bettlements lar intervals. The several floors were constructed on arches; the roof was flat, or had battlements, and possessed a notched parapet for the purposes of defence. The main tower was surrounded by a court-yard protected by a high wall, and the arched entrance was strongly secured by a

falling gate or portcullis. Around the whole was a deep ditch, or fosse, which could be filled with water. Many of the castle fortresses were on a plan of great magnitude, consisting of two or more towers and divers inner buildings, including chapels. During the gloom and the disastrous influences of the bloody wars of the middle ages, we find the venerable institution of freemasonry nourishing under the ashes of its ancient mysteries, the social fire of architec-tural art. While the whole of Europe was convulsed with the international and social strife and invasions of barbarians which resulted in it- complete reorganization, the study of the arts, sciences, and literature, took refuge in the arts, sciences, and literature, took refuge in the monasteries.—In Italy during the 10th cen-tury we find the corporation of Magistri Coma-cini exercising great influence, and giving to Grecian artists shelter from the political troubles of the East, and from the persecutions of the Iconoclasts. These artists promulgated among the Lombards the Byzantine elements: of structure, whose influence, as we have seen, was more or less felt throughout the architectural schools of Europe.-Under Erwin von Steinbach, of Germany, during the 13th century, the Hutten, or lodges, were organized, one object of which was the study of architecture, over which they exercised a powerful influence. In Strasbourg existed the lodge of the Haupt-Hatte. Under Godoyne, or Josse Dottzinger, of Worms (who, in 1444, succeeded the architect J. Hult), the various sects of the German free-J. Hart), the various sects of the terman free-masons were incorporated into one body, and, in virtue of an act passed at Ratisbon the same year, the architect of the cathedral of Strasbourg was elected the sole grand-master of the fraternity. These magnetic lepidum were likewise sole directors or supervisors of all the religious structures. Protected by the church, sole depository of the arcana of the early masters, architecture passed from the old Gothic through various phases of the pointed or ogean styles. The influence, the enterprise, and daring achievements of its promoters seemed to strike the contemporary ages as well as posteri-ty with a religious awe; and the intellectual ty with a reignous awe; and the intellectual power and energy of the people appear to have been concentrated and expended upon architecture. The revival of the spirit of emulation engendered by the impetus thus given to art would seem to have possessed a regenerating power, and to have re-uscitated Europe from the condition of moral syncope into which it the constitution of norm synope into which it had fallen. The spirit of an age is embodied in its architecture. In the obscure depth of the yault of the so-called Gothic cathedral, the maind is inspired with solumn and devotional feelings. The style and decoration of the an-clent Christian churches are by no means accidental. They speak a religious, figurative, and mystic language, and are symbolic revelations of faith. The cathedrals in the pointed style most justly deserve the admiration of the lov-ers of architectural beauty. The grand, hold, and regular proportions, the unwearied industry

displayed, the stupendous exterior masses, and the severe and awe-inspiring solemnity of the interior, call forth unbounded praise. The pointed style customarily is divided into 3 periods—the 1st, or primary, dating from the latter end of the 12th century; the 2d, or decorated, or rayonnant, from the commencement of the 14th century; and the 3d, or perpendicular, or flamboyant, from the end of the 14th century which was supposed by the 1st. century, which was superseded by the Ravi-VAL OR RENAISSANCE OF THE 16TH CENTURY. The essential element of this style is the pointed arch. Were it not for this feature it would ed arch. Were it not for this feature it would be often difficult to distinguish between the carlier works of the 1st period of the point-ed and the later works of the old Gothic. It is during the 1st period that the spire surmounting the tower becomes of so great importance, forming one of the striking charimportance, forming one of the striking char-acteristics of this style. In the finer exam-ples it is octagonal and very pointed, either plain or ribbed, sometimes pierced, sometimes crocketed, and invariably bearing a finial. Buttresses and flying buttresses also form a striking feature—these latter being somewhat massive and heavy at first, but gradually be-coming more and more elegant as they ap-proached the 2d period. The sets-off are form-ed by inclined slabs, or by a pediment with finial, the face of the buttresses being oranmain, the face of the buttresses being ornamented at times with panels and niches; is some cases also the space between the arches of the flying buttresses is occupied by radiating columns. The parapet is uninterrupted, and is either decorated or plain. Turrets were either square or octagonal; their pinnacles being most appear of the latter form within contact. ly of the latter form, either crocketed or not. The rose windows of this period are quite simple: small columns radiating from the centro receiving foiled arches tangent to the circumference. The lancet arch predominates. The windows are very long and narrow, and are either simple or coupled, in which latter case a slender column forms, as it were, the mullion. The ribs of the groined ceilings are decorated with bosses at their intersections, and rest either upon corbels, or upon the shafts of slender columns which descend to the pave-The piers are either simple in plan, or present several shufts clustered around a core of a circular, elliptical, or cruciform shape. or a circular, eniptical, or cruciorm snaps. Inseculpture, wherein the national flora is introduced, supersedes altogether the ornamentation previously employed; resaces, trefoils, quatrefoils, and panelling, are introduced to ornament their works in various ways.—During the 3d period this style arrived at its apages. A greater elegance and richness pervade this teeriod, whose characteristic features are thereseriod, whose characteristic features are thereby distinguished from those of the previous one those at quoins being placed diagonally. The parapets are pierced or embattled, as are also the pediments. The windows gradually assume The flying buttresses are extremely graceful, the pediments. The windows gradually assume a less pointed form, the head of the arch being in general equilateral. Replacing the small

displayed, the stupendous exterior masses

columns in the windows are moulded mullions, which form graceful flowing traceries in the head of the arch. Beside, the drip-stone is often surmounted by a canopy or pediment resting on masks, and enriched with crockets and a finial. The clustered columns comprising the columnar piers are more elaborate, and generally placed diagonally. Their bases be-come more important, and are placed upon octagonal plinths clustered together. The ribs, bosses, and carved ornaments throughout have more relief, and are more elegant.—The 8d period is remarkable for its profuse ornamenta-tion. The panelled walls, with their niches, tabernacles, canopies, and screens, highly decotabernacies, canopies, and screens, highly decorated; the flying buttresses enriched with pinnacles and tracery; the corbelled battlements and turrets, the balustrades, intricately carved and pierced, are fully characteristic of this epoch. The arch presents many varieties of form. Together with those common in the preceding periods, others exist very depressed; being, in many cases, almost flat. The ogeo, or contrasted form, also appears in the openings and pediments. The doors are generally square-headed, the spandril above being enriched with and pediments. The doors are generally square-headed, the spandril above being enriched with traceries. The rose windows during the 15th century are most intricate in tracery. The groined vanita, also, are very elaborate, whilst their bosses and pendents are unequalled for their wonderful carvings. The mouldings of the archivolta, more prismatic in their forms than in the previous periods, continue down minterruptedly to the foot of the openings; thus doing away with the columns heretofore employed. The appellations of perpendicular and flamboyant, by which this period is also known, arose from its peculiar mode of tracery.

—With the reformation came the gradual abandonment of the pointed styles, accompanied as donment of the pointed styles, accompanied as it was by the dissolution of freemasonry, ocit was by the dissolution or freemasonry, oc-casioned by the withdrawal of the patronage of the pope. The consequent architectural reaction sprang less from admiration and a thorough knowledge of the classic styles, than from a necessity of returning to the antique. This style had lost its able promulgators, and with it the arcans of its system of architecture. The return, however, to the rules of the ancient schools of design, was progressive, save in Ita-ly, where they had constantly exercised a pow-erful influence over the artistic spirit of the country, its architecture having retained through the middle ages the characteristics of the classic schools. We find here, however, several beautiful edifices, termed by the Italians in maniera Tedesco, which, notwithstanding the contradictory statements made by Muratori and Maffei, were the work of German artists. During the Were the work of German artists. During the 14th century, or the trecento period, we discover in Italy, in the secular structures more especially, numerous examples exhibiting a return to the classic styles, which possess simplicity and boldness. At length, in the 16th century, the classic taste prevailed throughout Europe, and hence the different names, cinque

cento, renaissance, revival, given to that style which supplanted everywhere the so-called Gothic architecture. Brunelleschi of Florence was among the first to encourage and disseminate this taste for a return to the classic archi-tecture. He had numerous distinguished followers; among whom were Bramante, Sangallo, Peruzzi, San Michele, Vitruvius, Alberti, Palladio, Scamozzi, and many others, who palladio, Scamozzi, and many others, who their tained a well-deserved reputation. In their productions, the different elements of the classic The application style are happily introduced. of these elements to ecclesiastical, and more specially to secular structures, accounts for the liberties taken with them, amongst which we will cite the following: the great variety given to the intercolumniation of columns; the superposition of different orders, with and with-out broken entablatures; the frequent use of engaged columns and pilasters; the various forms given to the pediments; the substitution of columns for piers supporting arcades; the decoration of blank walls with medallions, foliage, and scrolls of various sorts, together designs of animals, arrayed in imitation of ancient arabesques. These, and many other so-called liberties, originated a style peculiarly well adapted to the wants of modern civilization. Michel Angelo made several innovations in architecture, as well as in the other arts. He abolished many capricious ornaments. And instead of superimposing several orders, distinguishing as many stories, he employed one, comprising the whole height of the edifice. To him we are indebted for certain bold elements of the edification of the edifica ments of design, although generally wanting in grace and purity. To his followers, Bernini, Boromini, Fontana, and others, is to be attributed, in a great measure, the cause of the decadence which followed the architecture of the 16th century.—From Italy, the renaissance was first introduced into France. Among those who distinguished themselves in this kingdom, were Jean Bullant, Philibert de Lorme, and Pierre Lescot. Later appeared De Brosse, Du Cerceau; and, finally, Perrault, under Louis XIV., tried in vain to revivify a taste for the pure and simple elements of ancient architecture. England boasts likewise of her Inigo Jones—her Palladio, followed by Christopher Wren, Sir William Chambers, Sir Robert Taylor, and many others of merit and distinction.—MODERN ARCHITECTURE. The architectural elements of the 19th century would seem to be purely eclectic. It is but just, however, to make an exception in favor of the modern French school, the Romantique, wherein the Grecian rather than the Roman elements are introduced, and whose designs, portraying simplicity, grace, purity, and harmony, form a singular contrast with the old edifices of the French capital, on whose blackened mass is traced the incrusted atmosphere of ages. With the introduction of steam, new wants were created, vast depots and other structures were required, and iron came naturally into general

copies, one of which he burned and left the other unburned. As a proof of the durability of

from its being a material easily wrought; and from its ductile qualities capable of covering an extended area, its use proving more economical than the materials formerly em-ployed. Thus far, the most important structure upon which this material has been throughout employed, is the crystal palace of Sir Jo-seph Paxton. Iron is to-day, to a great extent, employed in shop-fronts, on account of its dispensing with the ponderous stone masses which were formerly used, and which excluded much were formerly used, and which excluded much light. We find it also applied in the construc-tion of warehouses and in public buildings, it being fire-proof. In the United States it is much used in façades. The introduction of much used in façades. iron, as an architectural material, taken in connection with many special circumstances attendant upon the prosperity of the United States, must inevitably influence and promote tendant upon the art, and give it a natural and necessary tendency to compose, combine, and originate, new archi-tectural features.

ARCHITRAVE, in architecture, the lowest of the 3 divisions of an entablature, resting immediately upon the column. It is named from the Greek word apyos, chief, and Latin trabs, a beam, because, in wooden buildings, the architrave consisted of a beam fixed upon the capitals of the pillars. It was called in ancient architecture the epistyle. The use of the architrave is to bind the columns together. The ancient architraves were generally a single stone reaching from column to column, but in modern times they are seddom monolithic, but composed of several stones so adjusted as mutually to support each other. The form of the architrave varies in the different orders; in the Tuscan it has but one stripe, surmounted by a fillet; it has two faces in the Ionic and Composite order, and three in the Ionic and Corinthian.

ARCHIVES, the records of a nation. Stone has proved a more faithful depositary than metals; yet stone has shown itself a much weaker guardian of such treasures than materials far more frail. In the palaces of Ninevel Mr. Layard has shown us that the alabaster alaba, which hore the records of one dynasty, were smoothed or reversel to receive the laws or the laudations of another. In some cases they placed their longest inscriptions on the backs of the slabs, and thus built them into the wall, hoping that they might in this way foil the destructive malice of their foes. Nor were they unsuccessful in their aim. Some inscriptions have thus been preserved to us, and the patient labors of Rawhuson and Hincks are gradually changing their darkness into light. The celebrated rock tablets of Behistin, or Bissium, at whose trilingual inscriptions Sir Henry Rawlinson has been so long laboring, seem to have owed their preservation to their inaccessibility. A shrewd idea about the preservation of archives is attributed by tradition to Seth, who is said to have written the history of the antedliuvian ages on tablets of clay, making 3

this material may be mentioned the great numb of tablets of burnt clay recently (1848) discovered by Layard in the record chamber of Kon-yunjik, more or less broken, it is true, but still legible, and constituting undoubtedly some of the most ancient archives in the world. The hieroglyphic records of Egypt owe their pre-crya-tion to the solidity of the monuments on which they were inscribed, and to the fact that, mud hovels being a sufficient shelter for the inhalftants of the country, these structures were rarely or never drawn upon as quarries. Yet the most perfect of Egyptian records is the "Book of the Dead," preserved upon frail re-"Book of the Dead," preserved upon frail pa-pyrus. The Greek tablets of metal seem all to have disappeared. The marbles of Halicarussus were rescued after having been built into the walls of a fortress, and others have been pre-erved with difficulty after being mutilated. Here, too, the frail parchment or papyrus proved superior to monumental marble; and the same is true of the Romans, though occasionally, as in the case of the tablet of Claudius, preserved at Lyons, metals have proved lasting me-morials. In America, with the exception of the Mexicans and Peruvians, the various Indian tribes have never got beyond rolls of bark and painted skins for their records. The Peruvian painted skins for their records. The regular archives consisted of knotted strings of differ-ent colors called quippus (from quippus, a knot). The red strings referred to war, the yellow to corn, &c. When first used these knots signified numbers only, but they were afterward invested with a figurative meaning so as to convey ideas to posterity when aided by the cultivated memories of the quippu-camayors (superintendents of knots); and it is said that there are still some Indians in the interior of Peru who are able, but not willing, to interpret these records of their ancestors. The picture-writing of the Mexicans, however, was superior to this contrivance; since it sufficed for the transmis-sion of their laws, tribute-rolls, mythology, calendars, and rituals, as well as their political annals. In this case also frail materials have proved safe depositaries; for these archives were written on cotton cloth and prepared skins, but still more frequently upon a sort of paper manufactured by them from the leaves of the American also, and this is said to have been more soft and beautiful than parchme Modern governments have wisely availed then selves of the security afforded by the press; some of them, as, for instance, the British and the French, have systematically distributed to foreign libraries copies of their most imports

records as the best means of preserving them.

ARCHIVOLT (Gr. apper, chief, and Lat. colutus, a contour), in architecture, the inner contour of an arch, or the ornamented band at mouldings round the arch-stones of an arch, like the architrave, variously adorned, according to the richness or simplicity of the order.

ARCHONS, certain magistrates of ancient Athens. According to the old tradition, Codrus, king of Athena, having, about 1068 B. C., sacrificed his life to save his country, the people, or rather the nobles of that city, determined that, as no one was worthy to succeed this hero, they would have no more kings, and accordingly intrusted the highest power to a magistrate, whom they styled archon (αρχων, a ruler), whose authority was somewhat more limited than that of the ancient kings. Medon, the son of Codrus, was the first archon, and the office was hereditary in his family until 714 B. C., when it was thrown open to all the Eupatrides or pa-tricians. Previous to the year 752 B. C., the tricians. Previous to the year 752 B. C., the archon held his office during life; at that time the duration of the term of that office was limited to 10 years; and in 688 B. C. to one, while, at this latter epoch, the office was divided among 9 persons, instead of being held by only one, as previously it had been, and several years afterward, though precisely at what time is not known, the archonship was made accessible to the citizens generally, who were subject, however, to some restrictions as to qualification. The power of the archons, at first almost supreme, became limited by degrees, and, at last, they had very little influence in the management of the government. One of the 9 archons was called the archon, as being the chief of the whole body, and his duty was the chief of the whole body, and his duty was to superintend the greater Dionysiac festivals, in honor of Bacchus, and the Thargelia, in honor of Apollo and Diana, and to exercise a general care over orphans, and jurisdiction in matters relating to the law of inheritance. He was sometimes styled eponymus (επωνυμος, one from worship. He had personal jurisdiction in disputes concerning the rights and duties of priests, and was public prosecutor against all persons who were accused of having committed offences against religion, and against murderers. had also a general superintendence of all mathad also a general superintendence of all matters relating to religion, and particular charge of the celebration of several festivals. The 8d archon was called polemarch (πολεμαρχος, commander-in-chief), and originally had supreme control over the army. The polemarch Callimachus was in command of the Athenian forces at the battle of Marathon, 490 B. C., but this is the latest known instance of the polemarch's having exercised such authority, his duties being, in aftertimes, confined to attending to the affairs of the alien residents of tending to the affairs of the alien residents of Athens, just as the archon eponymus had the care of those of the citizens, to the management of the funeral games in honor of such Athenians as had fallen in battle for their country, and the superintendence of other similar rites. Each of these three archons was allowed 2 assistants, whose appointment had to be sanctioned by

The rest of the archons were styled these of the actions were styled the smothetse (SecruoSerus, lawgivers), though this name was also sometimes applied to the whole body. Their duties were mainly connected with the administration of the law, which they annually revised. They received charges against persons accused of any crime or misdemeanor, brought cases before the courts for trial, had the superintendence of voting in popular assemblies, and the ratification of treaties with foreign states, arranging the condition under which actions at law might be brought between citizens of such states and Athenians, gave notice of the days of sitting of the courts of law, appointed the dicasts or jury-men, took care that all new laws were properly entered, and formed a court of justice having jurisdiction in certain cases. These were their principal duties. In the times when democracy was powerfully developed at Athens, the archons, previously elected, were chosen by lot. The examination to which they were obliged to submit before they could enter upon their was, however, a slight restriction on the indis-criminateness of such a choice. They were They were exempt from extraordinary burdens and taxes, and if any one insulted or struck one of them, while wearing his badge of office, which was a chaplet of myrtle, the offender was rendered infamous, and deprived of all civic rights. At the expiration of their year of office, they were obliged to submit to an examination as to the manner in which they had performed their duties, and, if such examination proved satisfactory, were admitted members of the court of the agreements. the areopagus. The name archon was also sometimes applied to certain civil and religious officers in the eastern empire.

ARCHYTAS of Tarentum, an Italian Greek, contemporary with Plato, and famous as a phicontemporary with risto, and famous as a pul-losopher, mathematician, general, and states-man, accidentally drowned while crossing the Adriatic. He is said to have been 7 times general of the Tarentine forces, and to have been victorious in every war which he con-He is also said to have been repeatedly intrusted by his fellow-citizens with the manage ment of their political affairs, and to have evinced no less capacity in council than in action. He was on very intimate terms with Plato, with whom he kept up a regular corre-He was much addicted to mathematics, and was the first who applied mathematical principles to practical mechanics. He also constructed various machines and automa-As a metaphysician he is supposed tons. have furnished both Plato and Aristotle with many of their ideas and principles. Numerous fragments of the works ascribed to Archytas have come down to us, some of them genuine, some spurious. The best collection will be found in the Opuscula Gracorum of Orellius.

ARCIS-SUR-AUBE, a town of France, department of Arbert population, 2652. It con-

ARCIS-SUR-AUBE, a town of France, department of Aube; population, 2,652. It contains cotton and spinning manufactories, manufactories of cotton hosiery, and is an entrepot

for iron, and for the wooden wares made in the

Vosges. Near this town, March 20, 1814, Na-poleon defeated a division of the allied army. ARCISZEFFSKI, Christopher, governor-general of Brazil, born toward the end of the 16th century, deel at Lissa, in Poland, in 1668. was son of a Polish colonel, and ien ans macro-land on account of his religious opinions, to enter the military service of Holland, thou as the height of her glory. He rapidly rose in rank, and upon the conquest of Brazil by the Though was automated its governor-general. He ras son of a Polish colonel, and left his native Dutch, was appointed its governor-general. He built extensive fortifications at Rio Janeiro, Bahia, and Pernambuco, and beside being a brave and skilful soldier, was a distinguished mathematician. The Dutch caused a medal to be struck, in commemoration of his services.

ARCO, a charming little Tyrolese town, not far from the lake of Garda, in the valley of the Sarca, with 2,000 inhabitants, who support themselves by the olive oil and silk trades. It is the residence of one of the historical famiis the residence of one of the historical fami-lies of Germany, represented at the present day by Count Leopold Arco, born in 1789. The genealogy of the family, whose domains came in 1614 under the sway of Austria, goes as far back as the 12th century, and several of the counts have occupied civil and military posi-tions of eminence. The most distinguished member of this family was born in 1479, died in 1546. In this gardon residual as a sublinguished in 1546, he was remarkable as a soldier and a

Latin poet.

ARCOLE, a village of Austrian Italy, on the Alpone, 15 miles E. S. E. of Verona. It contains 1,600 inhabitants, and is famous for the victory gamed there by Napoleon over the Austrians, Nov. 17, 1796.

ARQON, JEAN CLAUDE ÉLÉGNORE D', surnamed LE Mionaum, a French engineer, who distinguished humself by the invention of floating battern's, born at Pontarlier in 1733, and dash in 1800. He was intended for the toil-

died in 1500. He was intended for the pulpit, but having evinced a genius for drawing plans of fortifications, he was transferred to the military school of Mezières. He was present in 1750 at the siege of Cubraltar, where the idea of thating batteries suggested itself. due de Crilion planned an attack on Gibraltar, in accordance with Argon's suggestions, but it was not successful. In 1798 he distinguished himself in the wars with Holland, but some false charges having been brought against him, he left the army, and devoted himself to litera-ture. His most important work is entitled, Considerations militures et politiques sur les fortifications, published in 1795 at the expense e Freich government.

ARCONA, or ARKONA, a promontory form ing the north-castern extremity of the island of Bogon, in the Baltic sea. It rises in steep chils out of the sea, but its surface is fertile. A temple to the goal Swantewit, formerly venerated by the Stavonians of northern Germany, once steel here together with an old Vandal castle. But in the year 1168, Waldemar L. hing of Denmark, stormed the castle, and burned the temple, and on the spot where they stood a light-house now rises.

ARCOS, RODRIGO PONCE DE LEON, duke

LEON, duke of, vicercy of Naples during the insures-tion headed by Massniello, was born in Spain, in the latter part of the 16th century. After filling several responsible stations, in 1646 ho was appointed viceroy of Naples. He found the people oppressed by many grievom taxes, imposed by the Spaniards to defray the cost of their wars with France, Portugal, and other nations, and instead of attempting to alleviate their condition, lost no opportunity of adding to their burdens. About this time the French sent several expeditions against the Spanish possessions in Italy, and Arcos seems to have eagerly availed himself of this pretext to add to the already enormous taxes exacted from the people. His edict announcing this, which appeared Jan. 3, 1647, was the signal which appeared Jan. 3, 1647, was the signal for a popular outbreak, of a most violent and sanguinary nature, headed by Tommaso Aniello, a fisherman, better known as Masaniello.

The people demanded the abolition of the tay on bread, and the restoration of the tax on bread, and the restoration of the privileges of the emperor Charles V. Arca, after a vain attempt to appease them, took refuge in flight, but was arrested, and com-pelled to take an oath to redress the public pelled to take an oath to redress the pather grievances. Having succeeded, shortly afterward, in gaining possession of the citaslel, he refused to ratify his promises, whereupon the insurrection blazed forth with greater fury than ever, and was participated in by all classes of citizens. Finding resistance in vain, he again yielded to the demands of the people, but cunningly took advantage of the infatuation with which a andden elevation to tower had with which a sudden elevation to power had seized Masaniello, to work his destruction. He invited him and his wife to the royal palaca, humored his arrogance, and even saluted the pair with the title of duke and duchess, and soon after procured his assassination, amids the acclamations of the fickle populace. Public confidence in the viceroy, however, was not yet restored, but the opportune arrival of the fleet of Don John insured his safety, although some months. Areas retired from office Jan. 28, 1648, just a year after the commencement of the outbreak, and died in disgrace. (See

ARCOT, a city and district of British India, forming part of the Carnatic, and in the presidency of Madras. The city is on the river Palam. The district was formerly the possession of an independent sovereign, but the nabob Anwared-sleen was killed in battle in 1749, with an opponent supported by the French. Subsequently it was taken from them by Lord Clive, who resisted the French in a siece. It was who resisted the French in a siege. It was taken by Hyder Ali, and in 1401 the city and district were finally ceded to the British by the nabob, they making him an annual allowance and undertaking to pay all his creditors, a mat-ter of no little difficulty, owing to the comm of his affairs, and the immense amount of claims, about \$85,000,000. The city was fied, but the fortifications have been considered into gardens, and so much only of them ned as would serve for an embankment at the inundations of the river.

BOTIO (Gr. aρατος, bear), relating to the h pole, the two constellations of the Great Little Bear being near the north pole of beavens.—The Arctio Circle is a circle d the north pole of the earth, about lat.

O'. Neglecting the refraction of light, an rver on the arctic circle would have his set day in summer just 24 hours long, the hiding half his disc below the northern on at midnight of that day. His longest t in winter would be also 24 hours, the sun ing half his disc in the southern horizon the hiding half his disc in the southern horizon the half his disc in the southern horizon the half his disc in the southern horizon the north frigid zone, although that may also be defined as of irregular shape, ded by the isothermal line on which the get temperature of the year is at the ing point.—Arctio Highlands. The tract designated forms the north-eastern angle a American continent, from the mouth of tackenzie river to the shores of Hudson's

Isckenzie river to the shores of Hudson's
The surface of this vast tract is rugged
broken, and abounds in lakes and wateriss. The climate of the entire region is
nost severe on the American continent.
Is not severe on the American continent.
Is not severe on the winter is from
the freezing point. The mean
trature of summer is not above 4° or 5° F.
Is whole region is destitute of wood, and is
the desert.—Arctio Sea, the ocean which
the northern shores of America and
and extends thence to the pole. Those
ons nearest the American and Asiatic
the are blocked up by never-melting ice,
he makes navigation impossible. Between
herican coast and lat. 80°, numerous litnown "lands" and islands dot this ocean.
The summer lat. 80° and the pole, it is now genersonoeded, there lies a tract of nearly open
the known to geographers as the open Polar

The analogies of science (see Maury's ymical Geography of the Sea"), as well as the veries of Kane, Inglefield, and Belcher, all prove the existence of this open sea. In 's expedition, the view of this water was ined from a precipitous headland, in lat. 22' N. and long. 65° 85' W. Dr. Kane the following reasons for regarding the rhere seen as an iceless open sea:

b was approached by a channel entirely free from ice, a length of 52 and a mean width of 36 geographical

The coast ice along the water line of this channel had completely destroyed by thaw and water action, as unbroken beit of solid ice 125 miles in diameter, exto the south.

as uncroken per or some color mines in animos, of to the south.

gale from the north-east, of 54 hours' duration, it a heavy sea from that quarter, without disclosing fift or other ice.

Jark nimbus clouds and water sky invested the

ma horizon. hewds of migratory birds were observed thronging its

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ARCTIC DISCOVERY. Until within a recent period it was believed that Columbus and Cabot were the actual first discoverers of the American continent. Careful researches on the part of northern antiquarians, however, would coast—some maintain as far south as what is now Long Island—were known to the seamen, the sea kings of Norway, as early as the 9th and 10th centuries. Newfoundland and Greenland were the regions best known to these rovers, from whose slight accounts it is sup-posed that the climate of those regions was much posed that the climate of those regions was much milder at that period than it is now. In the year 1000 a Norwegian, with a crew of Ioelanders, landed on the coast of Massachusetts, which he named Vinland. This party erected monuments on an island in Baffin's bay, where they were discovered in 1824. They estab-lished colonies on the Greenland coast, which by the fisheries, which they pursued as far as Lancaster sound, and even to Barrow's straits. Greenland and Spitzbergen were for several centuries prosperous colonies. Iceland, then at the height of its prosperity found here a fair the height of its prosperity, found here a fair field for the enterprise of its inhabitants, who not only followed commerce and the fisheries, but propagated their faith in the new land, and built up numerous churches and convents, whose The Icelanders and Northmen, then, were the first arctic explorers. Theirs, however, was an exploration which had no object beyond the immediate profit of the adventurers. They left no records of their voyages beyond their voyages beyond their voyages beyond their voyages beyond the immediate profit of the adventurers. their pecuniary gains and the adventures they encountered, and seem to have been little aware of the importance of the great discovery they had made. As the Greenland and Spitzbergen colonies perished, and the most important Icelandic expedition was lost, and never heard from, while Iceland itself and the countries of the north were distracted by internal troubles, no trace of the discoveries med by the troubles, no trace of the discoveries made by these people was communicated to the rest of Europe. In 1380, two Venetian navigators, Zeni by name, voyaged to the north, and brought back tidings of what they had seen. Their discoveries, however, Their discoveries, however, ag important. In 1497 the resulted in nothing important. Cabots, John and Sebastian, landed at Labrador, and afterward projected a voyage toward the and afterward projected a voyage toward the north pole. They penetrated as far as 67° 30′ N₁, that is to say, about half way up Davis's straits. This may be called the first actual northern exploring voyage. Columbus set out upon his voyage with the object of discovering a shorter passage to the Indies. The Cabots seem to have been animated by the same desire. Finding a continent harring their progression. Finding a continent barring their progress directly westward, they at once stretched away north, thinking to sail westward, around its northern terminus, and thus reach the much desired Cathay. These, then, were the first seekers for the north-west passage. The next ex-

plorers were the brothers Cortereal, who made in all 3 voyages, penetrating as far as 60° N., but resulting in nothing but disaster to the adventurers and loss of life. This was in 1500, our resuming in nothing but disaster to the adventurers and loss of life. This was in 1500, '1, '2, '3. In 1553 Sir Hugh Willoughby was sent out by the Muscovy company to find a N.E. passage to Cathay and India. He penetrated to Nova Zembla, was driven back by the in-Nova Zembla, was driven back by the ice as far as the mouth of the Arzina in Lapland, and here the gallant commander and his crew were afterward found frozen to death. In 1576-78, James Fr bisher made 3 voyages to the northwest. He discovered the entrance to Hudson's strait and Frobisher's strait leading into Hudson's tay. Beyond this no material result was achieved. These were the first voyages on which we hear of scientific investigations being made. In 1578 Sir Humphrey Gilbert, a relative of Sir Walter Raleigh, received authority to make a voyage of discovery on the American continent. He was a firm believer in the practicability of a north-west passage. A discourse of his upon the subject is yet extant. Of Sir Humphrey's marvellous adventures and Of sir framphrey's marveirous adventures and chivalrons bearing on his voyage of exploration, as these were practically without result, we have not space to give details here. Next followed (15°5–'88) Davis, who made more important accessions to a knowledge of the Polar sea than any of his predecessors. He first fairly discovered the strait which bears he manner and surveyed the strait which bears he name, and surveyed portions of the coast of Greenland. It may be well to say here that these and other navigators, Danes, French, and Dutch, were stimulated to energetic efforts for India, were stimulated to energetic energe of finding a northern passage to India, in great part because Spain, then in her glory and power, monopolized the traffic across the Atlantic and Indian oceans, and dealt summarily with all intruders. The Dutch persevered in their search for a north-east passage. William Barentz made 8 voyages in this direction, 1594 - '96. He and his crew suffered much, struggled rate of the accident difficulties of which they could manfally against difficulties of which they could man' ily arainst difficulties of which they could have had no conception when they set out on their voyages, and for which they were but inadequately prepared; but, so far as the prime object of their expedition was concerned, accomplished nothing material. Barentz himself perished on the 3d voyage, when his crew were in boats near the by cape, a headland of Russian America, in the Arctic ocean. We Russian America, in the Arctic ocean. We now come to Henry Hudson. He set out in 1607, under the auspices of the Muscovy company. His instructions develop a new trait and phase in arctic explorations. He was ordered to steer directly toward the north pole. He reach-ed lat. 81° 30′, steering due north along the coast of Spitzbergen, and a turned convinced that a passage across in that direction was impossible of attainment. The following year (1608) he tried the north-east passage, which was then a favorite route with those who believed in the practicability of reaching the Indies by the north. He pushed forward as far as practi-cable for the ice (about lat. 75°), and returned

the same year. The next year he tried again, but, finding his way impeded by large masses of ice, he returned and sailed westward, and, searching along the American coast for a pas sage way, discovered the bay of New York and the river which yet bears his name. In 1610 Hudson set sail upon a 4th expedition. He sailed up the strait named after him, into the mouth of Hudson's bay, penetrating several hundred miles further than any one had ever gone before, to the west. The expedition wingone before, to the west. The expedition win-tered on one of the islands in the mouth of the Their progress in the spring was beset many difficulties. They met with storms. bav. with many difficulties. the provisions gave out, the crew mutinied: and, finally, a portion of the mutineers re-turned to England, but without Hudson, who turned to England, but without Hudson, who perished by the way. It was now supposed that Hudson's bay was a great outlet into the Pacific waters, and sanguine expectations were entertained that here would be found the desiderated north-west passage. Within the next 5 years several expeditions were made into Hudson's bay; and two important channels. Fox channel and Sir Thomas Rowe's Welcome, were partially explored. In 1616 Baffin explored pretty thoroughly the bay called afterhim, even entering the mouth of Lancaster sound. Baffin's survey was very exact, and for Baffin's survey was very ex et, and for upward of 50 years after his explorations, no navigator penetrated beyond him. Meantime, however, the Russians were actively exploring in another direction. By overland expeditions through Siberia, and by vessels through Behrthrough Siberia, and by vessely ing's strait, they sought to establish the practi-ability of a ressaure to the north-east. It was ing a strait, they sought to estimate the practicability of a passage to the north-east. It was on one of these expeditions that the extreme variation of the magnetic needle was first closely remarked. Notwithstanding the ill successes of divers expeditions, the Russian government persevered. In 1741 Behring set government persevered. In 1741 Behring set sail with an expedition from the harbor of St. Peter and St. Paul (Petropaulovski) in Kamschatka. The crew suffered greatly on this expedition. After various buffetines vere gales, having twice made the American coast and been driven off to sea, the commander (Behring) died; the vessels were wrecked; the crews wintered on an island known as Behring's island; built a small vessel the following spring; and finally reached Kamtchatka Aug. 25, the year after they sailed. We have space only to make bare mention of the expeditions in 1760 of Shalaroff, who perished of starva-tion with all his crew; of Andrejeff; and of Capt. Billings, who started from the mouth of the Kolyma in Siberia. None of these resulted in important additions to the stock of geographical knowledge; and so we come to the last of the Russian efforts—the sledge expeditions of Von Wrangell and Anjou, between the years 1820-23. These explorers penetrated to lat. 70° 51' N. long. 157° 25' W., and reported an open sea in the distant north, which precluded further operations with sledges. The natives whom they met at various points, spoke of land still

further north. They did not see it, however. The Russian government seems now to have been unwillingly satisfied of the impracticability of a unwillingly satisfied of the impracticability of a north-east passage, and the extreme difficulties attending explorations in the ocean to the north of Siberia; aledge navigation being interrupted by large tracts of open water, while naval explorations were rendered yet more impossible by the vast fields of ice which constantly guard the Siberian coasts.—We return now to the British navigators, between whom and the Americans the perils and honors of arctic exploration were henceforth to be divided. exploration were henceforth to be divided. Hudson's bay was yet considered a great outlet toward the north-west, and in 1748 the British parliament offered a reward of £20,000 to the crew who should accomplish a passage north-west by way of Hudson's bay. Between 1769-'73 a Mr. Hearne made three overland journeys north toward the Polar see. In the 3d he discovered and the Polar sea. In the 3d he discovered and traced to its mouth the Coppermine river. In 1773 Capt. Phipps (Lord Mulgrave) was sent out with instructions to reach the north pold. From this time forth the arctic explorations were no longer merely for purposes of advanwere no commerce, but in great part for scientific objects, and with the purpose of elucidating various geographical and scientific problems, and satisfying an intelligent curiosity. Phipps, sailing along the shores of Spitzbergen, reached lat. 80° 48′—not so far north as Hudson, who attained 81° 30′ in 1607. In 1776 Capt. Cook sailed on his lest and fotal carea? Capt. Cook sailed on his last and fatal expedition, with instructions to attempt the Polar ses by way of Behring's straits. He penetrated only to lat. 70° 45'. From his great experience and success as a navigator ardent expectations were entertained that he would accomplish what no one else had succeeded in. A vessel was despatched to Baffin's bay, there to await him. But in vain. The ice he found to form a solid barrier entirely across his path. Previous to Cook's expedition the conditions of the parliamentary reward had been extended so as to inmentary reward had been extended so as to include any northern passage for ships, and an additional reward of £5,000 was offered to the crew that should penetrate to within 1° of the pole. In 1789, Mackenzie, in a land expedition, discovered and traced to its mouth the river called after him, without, however, achieving any other result. The next 2 expeditions set sail in 1818, one under the command of Capt. Ross and Lieut. Parry to discover the north-west passage; the other under Capt. Buchan and Lieut. (Sir John) Franklin, to penetrate to the north pole. Of the last-mentioned expedition the objects were, of course, entirely scientific. The commanders were instructed to pass northward between Spitzbergen and Greenland without stop, and to make every effort to reach the north pole. They found the temperature along the western shore of Spitzbergen unexpectedly mild. But they did not succeed in penetrating further than 84° 84′, and did not get clear of the ice which sur-

rounded them in this latitude without encountering great danger. One of the ships, the Dorothea, being much shattered by the ice, the expedition was finally abandoned, and the 2 vessels returned home without accomplishing any material result beyond making some interesting experiments on the elliptical figure of the earth, on the refraction of the air in high latitudes, and on magnetic phenomena.—With the other expedition it was proposed to explore the great openings reported by Baffin to exist at the western extreme of Raffin's bay, and to report fully upon the state of the coasts and waters visited, with the scientific phenomena witnessvisited, with the scientific phenomena witnessed. The expedition sailed April 18, 1818. They passed along the Greenland coast; met clerk first off Waygat island; saw natives further along, who refused with horror their biscuit and sweetmests but deanly train of the coast. and sweetmeats, but drank train-oil; saw, for the first time, red snow; passed Wostenholm sound, looked into Smith's strait, steered south sound, looked into Smith's strait, steered south along the western shore past Smith's sound; and finally, Aug. 30, entered Lancaster sound. They were now arrived upon unexplored ground, and the crews first entertained the feelings of discoverers. It was not supposed that Lancaster sound was in point of fact more than a bay, and the vessels were steered into it with many misgivings. After sailing up some 60 miles it was thought that land was discovered, extending completely across from some to miles it was thought that land was discovered, extending completely across from shore to shore of the supposed bay; and, the weather threatening a storm, the vessels were put about. After exploring the coast to the southward and eastward for some distance, the vessels returned to England, where they arrived in October (1818). Capt. Ross reported Lancaster sound to be a bay through which. there was no practicable outlet to the ocean beyond. In this opinion several of his officers by no means agreed; and it appears that he failed to convince the scientific public of England of the correctness of his view. Lieut. Parry, who was as positive and sanguine that Lan-caster inlet was a sound as was Ross that it was caster inlet was a sound as was Ross that it was a bay, was intrusted with another expedition wherewith to establish, if possible, the fact. The Hecla was his own vessel. The Griper, under the command of Lieut. Liddon, was the consort. The expedition numbered 94 men, and was fitted out with provisions for 2 years. The vessels sailed May 11, 1819; first fell in with ice June 18, and found themselves firmly beleaguered on the 25th. They entered Lancaster sound July 30. But it was not till Aug. 3 that both vessels were able to lay their caster sound July 30. But it was not till Aug. 3 that both vessels were able to lay their course fairly up the channel. Then they made a rapid run as far as the mouth of Barrow's straits, passing divers islands, bays, and headlands, naming them as they passed, and finally reached the mouth of Prince Regent's inlet. They had now advanced further than any mariners had ever gone before them. They were approaching the magnetic pole, and found their compasses of little use. They entertained the most sanguing hopes of achieving the great obmost sanguine hopes of achieving the great ob-

ject of this and other expeditions—a north-west passage. They pushed forward, meeting and overcoming, or avoiding various obstacles, until overcoming, or avoiding various obstacles, until Sept. 4, when Parry announced to his delight-ed crew that, having passed the 110th parallel of longitude, they were entitled to the reward of £5,000 offered by parliament for this achievement. On Sept. 20 they were imbedded in ice, and further progress was stopped. They cut their way out and returned to Melville island, They cut they prepared to spend the winter, they made observations, collected speciwhere Here they mens, noticed the different animals which constitute the limited fauna of that region, and, when the weather permitted, made excursions to different parts of the island, finding-particnlarly on the western shore—mosses, a dwarf willow, saxifrage, and some small grass in the spring. On June 1 of the following year it was yet very cold. By the 2d week in June the ground was to some extent thawed out, and travelling was rendered difficult. On Aug. 2 the mass of ice which had confined the ships in their harbor broke up and floated out, setting the explorers at liberty. By the 15th they were again imbedded in ice, having made but little advance. Finding their westward progress entirely barred, they finally put about for home, reaching Britain in finally put about for home, reaching Britain in safety, and with the crews in a healthy condition. So successful a voyage raised high the expectations of all interested, and it was determined to send Parry out again. He accordingly sailed, in command of the Heela and Fury, in May, 1821, with instructions to make for Repulse bay, by way of Hudson's straits, with the accordingly sailed. with the expectation of thus avoiding much of the ice which had defeated the previous expe-dition. Refore this, however, in September, 1819, an overland expedition was sent out from York Factory, on the western shore of Hudson's bay, with instructions to explore the northern coast of America, from the mouth of the Cop-permine, castward. This expedition consisted of Licut, Sir John Franklin, Dr. Sir John Richardson, two midshipmen, Messrs, Hoad and execution, two mulentpinen, messes, itoosiana execut of Parry's making the coast, on his lst expedition, the two expeditions were to co-operate. They reached Chipewyan on March 26, having accomplished a foot journey of 856 miles, with the weather so intensely cold that the mercury sank to the bulb of the thermome-ter and then froze. In July, 1820, they travel-led 500 miles more to Fort Enterprise, where the party wintered, while Mr. (Sir George) Back, the midshipman, returned to Fort Chipewyan, to hurry along the supplies necessary for the next season's operation. Mr. Back, after innumerable hardships, returned to Fort Enterprise March 17, 1-21, having travelled over 1,100 miles, sometimes two or three days with out tasting food, with no covering at night but a blanket and deerskin, and with the thermome-ter ranging between 47° and 57° below zero. On June 30, 1521, the party, having dragged their

canoes and supplies from Fort Enterprise to the Coppermine, 80 miles, embarked on that stream, and floated seaward. They reached the sea July 18, and immediately commenced paddling to the east. They sailed and paddled along shore 550 miles, and imagined themselves upon the point of emerging into the vast Arctic oc when, to their dismay, they discovered that they had just reached the bottom of a huge bay. With but 3 days' provisions remaining, they sadly turned back, Sept. 1, and, unable even to reach their starting point, built 2 small cances of the larger ones, and ascended Hood river, a short distance wester Point Turnagain. the spot where they gave up further progress eastward. Short of food, in a country deserted eastward. Short of rood, in a country deserted even by the few animals which supply the scanty larder of the arctic voyager, ill provided with all that could facilitate their progress, eating the remains of their old shoes and whatever scraps of leather they had, obliged from exhaustion to abandon their canoes when they had, the last way against the statistic at the last way. haustion to abandon their canoes when they came to rapids, subsisting, at the last, upon rock tripo and the mosses which they could gather by the way, disappointed in finding assistance at a station where they had expected it, the sufferings of this party were almost unparalleled, and such as but few men could have endured. They lost 2 of their companions, and reached, in July, 1822. York Factory, whence they had started 3 years before. In these 3 years they had accomplished a journey of over 5,500 miles, without accomplishing that which they had set themselves to do, or proving aught but that Christian fortitude and perseverance suffice to overcome even the greatest obstacles. Meanovercome even the greatest obstacles. Mean time, Captains Parry and Lyon, in the Fury and Hecla, made Southampton island, the termina of Hudson's strain, early in August, 1821, and immediately steered to the north, up Fox's channel. Passing a bay hitherto unknown, which they named after the duke of York, they entered Repulse bay, in the hope of finding here an outlet toward the Arctic ocean. Leaving Repulse bay, they started upon the exploration of a hitherto entirely unknown region. They met with many difficulties, and made slow progress, finding it necessary to explore every indentation of the coast, in the hope of finding somewhere the hoped-for outlet toward the sea. Toward the close of September, the ice began to accumulate, and Parry was obliged to cut into a large floe, and make there a winter harbor for his vessels. The winter was devoted to various scientific experiments. The ships were visited on several occasions by Esquimaux, who, however ever, could give them no information concerning ever, could give them no information concerning the country they lived in. It was July before they were once even free of ice, and able to make progress on their voyage. It was near the entrance of Lyon inlet where they had wintered. They made their way to the north, up Fox channel, slowly, against a current set-ting to the southward, and reached, Aug. 14, the small island of Igloolik, situated at the entrance of a strait, which they were determined to pass through. This strait, called afterward the strait of the Fury and Hecla, was filled with ice. The ships were long detained, reached the middle of the strait only in September, and were obliged to return to Igloolik, for the winter, Oct. 30. Another winter (1832-23) was passed here. The next spring proved unfavorable. The expeditions by land were able to effect but little, on account of the extreme ruggedness of the shore. The first week in August was past before the ships were week in August was past before the ships were week in August was past before the sinps were released from their icy harbor; and Parry, who aw all advance to the north barred, even then, by vast masses of ice, returned home, arriving in England in Oct. 1823. So far but little had been accomplished. But the government was been accompanied. But the government was not discouraged, and the explorers seem to have been ever hopeful, and ever ready for new trials and sufferings. Four expeditions were now fitted out. The 1st, consisting of 2 ships, under Parry, was to try Prince Regent's inlet, which it was supposed would be found to open this experiment that great open extreme. at its southern extreme, into that great open Arctic sea, of which so much was hoped. The 2d party, under the command of Franklin, was to descend the Mackenzie river to the sea, and there divide, one party turning to the east, the other endeavoring to penetrate westward, even to Behring's straits. Captain Beechey, in the Blossom, was despatched around Cape Horn, to sail through Behring's straits and make headway to the east as far as Kotzebue sound, where he was to wait for Franklin's overland party. The 4th expedition (Capt. Lyon, in the Griper) was to pass to the south of Southampton island up Sir Thomas Rowe's Welcome, to Repulse bay; then to cross the Melville isthmus, and survey the coast as far as Frank-lin's Point Turnagain. This expedition was unfortunate; the vessel was twice nearly wrecked, and the expedition was abandoned when yet so miles distant from Repulse bay. Parry's expedition sailed in May, 1824, entered Lancaster sound in September, got into the ice, and was obliged to winter in Port Bowen, near the entrance of the sound. The following July, when starting forward again, the Fury was wrecked, and Parry returned to England in the Hecla, with a double crew. The only object gained by this disastrous expedition was a contrivance whereby the compass was made to work perfectly under all circumstances, and in all places, no matter how near the magnetic pole, thus obviating a most serious difficulty in arctic navigation. This was accomplished by pole, thus obviating a small circular plate of iron near the compass.—We come now to Frank"" expedition. The officers forming his Lieut. Back, Mr. near the compass.—we come now to Frank-lin's expedition. The officers forming his staff were Dr. Richardson, Lieut. Back, Mr. Kendall, and Mr. T. Drummond, a naturalist. They arrived at Fort Chipewyan in July, 1825; passed on to Great Bear lake, where the party were to winter; and thence a small party with Franklin descended the Mackenzie to the sea, which they reached at a point in lat. 69°

14', long. 185° 57', 1,045 miles from Great Slave lake. Here, on an eminence overlooking the Arctic ocean, Franklin had the mournful privilege of unfurling to the cold breeze a banner presented to him by his wife for this purpose, as she lay on her death-bed but a few days before his departure. She died the day after he left England. On June 28, 1826, the whole party again started from their quarters, down the Mackenzie. The expedition separated, according to the previously planned course of operations. Franklin, going to the westward, reached the sea, and penetrated as far west as operations. Franklin, going to the westward, reached the sea, and penetrated as far west as Return Reef, in lat. 70° 24′, and long. 149° 87′ W., whence, on Aug. 18, he set out on his return for the Mackenzie, the weather turning bad, and he being unaware that Beechey was waiting for him but 146 miles to the westward. for him but 146 miles to the westward. The latter, in the Blossom, had passed through Behring's strait and anchored near Chamisso island, in Kotzebue sound, on July 22. He waited here till the season advancing made further stay dangerous; and then sailed for Petropaulovski. The following year (1827) he again anchored in Kotzebue sound, but of course did not meet Franklin's party as he had hoped. Franklin traced the coast for 874 miles from the mouth of the Mackenzie. His yovage axthe mouth of the Mackenzie. His voys tended over 2,000 miles. The other His voyage extended over 2,000 miles. The other party (under Dr. Richardson) accomplished but little, sailing along an uninteresting shore. The whole expedition wintered at Great Bear lake, whole expedition wintered at Great Bear lake, where Franklin instituted a series of observations on terrestrial magnetism. As his winter quarters lay on the opposite side of the magnetic pole from Parry's, who made similar observations, it follows, to quote the words of Franklin, that "for the same months, at the interval of only one year, Capt. Parry and myself were making hourly observations on 2 needles, the north ends of which pointed almost directly toward each other, though our actual distance did not exceed 855 geographical miles; and while the needle of Port Bowen was increasing its westerly direction, ours was increasoreasing its westerly direction, ours was increas-ing its easterly, and the contrary—the variation being west at Port Bowen, and east at Fort -a beautiful and satisfactory proof of reankin—a beautiful and satisfactory proof of the solar influence on the daily variation."—We now come again to an expedition whose object was to reach the north pole. In 1806 Mr. Scoresby, a whaleman and private discoverer, had penetrated as far as 81° 30' north, further nad penetrated as far as 81° 30' north, further than any one had gone before him. Buchan and Franklin so completely failed in the ship expedition in 1818, that Mr. Scoreeby was led to advise an expedition to proceed by boats so fixed on sledges as to be easily dragged over the ice. Capt. Pairry received the command of an expedition fitted out in accordance with this idea. Two hosts covered well built and east expedition fitted out in accordance with this idea. Two boats, covered, well built, and set upon sledges, were to be landed upon the northern shores of Spitzbergen, whence they were to be dragged or sailed as ice or water presented itself. It was June 20, 1827, before Parry started with his boats, which contained 71 days' provisions. They met with many difficulties from the outset—thin ice, rough ice, short tracts of water interspersed with shorter tracts of ice; and snow-blindness among the crews. The last evil they obviated by travelling altogether at night, completely reversing the usual order of living, and for many days sleeping regularly by day and pushing forward by night. So slow was their progress that in 5 days of unremitting exertions, from June 24 to 29, they made but 10 miles due north. Setting out with the hope of reaching the pole, they finally willingly compromised on the 88d degree. Even this they were not des-tined to reach. The ice on which they travelled moved to the south, in a body, about as fast as they could move northward, and, on reaching 82° 45°, they gave up. They were then by observation distant from the Hecla 172 miles. attain this distance they had actually passed over 292 miles of ice and water; and having to make several of their days' journeys over 3 or 4 times on account of the moving ice, it was calculated that they really travelled 668 miles. They got back from this most discouraging and laborious expedition Aug. 21, thus signally failing in the only attempt ever made to reach signally failing in the only attempt ever made to reach the pole by going direct over the icy barrier which guards it, a project which hore upon its face more likelihood of success than any other ever devised for the same object.—We come next to an expedition fitted out by Sir Felix Booth, and commanded by Capt. Ross and his nephew, Commander (Sir James) Ross, in the Victory, a visual fitted to me steem in calm Victory, a vessel fitted to use steam in calm weather. The object was to find a north-west passage by some opening leading out of Prince Regent's inlet. The Victory sailed in May, 1829; entered Prince Regent's inlet Aug. 9; and, on the 15th, reached the furthest point scheved by Parry, whose explorations it was intended to follow up. They now met with many difficulties from the ice. Amid these, during the months of Angust and September, they worked their way along 300 miles of hitherto undiscovered coast, and finally reached a point only about 200 miles distant from the extreme point reached by Franklin on his last expedition from the westward. As the shore here suddenly trended to the westward, the voyagers now entertained strong hopes that the intervening 200 miles would be navigable at note future time. The season, however, was now over, and Oct. 7 they get into winter quar-ters at a place they named Felix harlor. Sept. 17, 1800, they occe more got under way. After making 3 miles, they again entered winter quarters, where they remained till Aug. 28, 1801. After making 4 miles (which consumed a month's time) they again, Sept. 27, get into winter quarters. It was during April, 1831, that Capt. Ross, on a sledning expedition, for the first time reached and fixed the position of the true magnetic pole. The spot was in lat. 70° 5-17, and long. 96° 46° 45° W. The scurvy

best to abandon the ship, and with the boats on sledges to make for the place of the Fury's on sledges to make for the place of the Fury's former wreck. After almost incredible hardships and sufferings, they reached this spot July 1, 1832, having left their ship April 23. Here, on Fury beach, they were obliged to pass another winter—1832—33. The crews suffered much. Several died, and many others were sick. They started again for the open sea July 8, 1833, and Aug. 26 descried a seasel, which took them on board. The captain refused at first to believe that Captain Ross and his crew stood before Lim. They had been given up for dead, for 2 years past. On Sept. 30, 1833, they reached the Orkneys, having been absent since May, 1829. In Feb. 1833, Back, with Dr. King, a naturalist and surgeon, left England for an overnaturalist and surgeon, left England for an overland expedition in search of Ross's party. They reached Fort Resolution, on the Great Bear lake, August 8. They passed on to Muskoz lake, to the north and east, but returned to winter at Fort Reliance, where they to winter at Fort Reliance, where they suffered terribly from scarcity of final, and a temperature which brought the thermometer temperature which brought the the says, to 102° below the freezing point. Back says, "On one occasion, while washing my face the fire, my hair was actually the fire my hair was actually the fire. ally clotted with ice before I had time to dry it." On April 25, when they were preparing to start for the sea-coast to the north and east, they received news of the safety of Ross and his party. On June 28 they launched their boats on the Thlew-ee-choh river, which they hoped, would take them to the Polar sea. they finally, July 29, reached the osean, at lat, 67° 11° N, and long, 94° 30° W, about 87 miles, south of the mouth of the Coppernment Its whole course ran through a country without a single tree—"an iron-ribbed country." Back calls it, "desolate, but abounding in game." They now pushed on along shore, but met with 14, obliged to turn back. The extreme point they reached was in lat. 68° 13° N, and long. 94° 58° W. The entire line of coast was level. and devoid of vegetation. They arrived at Fort Reliance Sept 17, having been near-ly 4 months away, and having travelled over a large tract of country before unexplored; but without having accomplished any thing of importance toward the elucidation of the great problem of the possibility of a north-west pa-sage. Back returned to England in Sept. 1888, and in June, 1836, set out in the Terror. to complete the exploration of the supposed water connection between Ross's winter harbor, in Prince Regent's inlet, and the Point Turnagain, which Ross had so vainly attempted to reach. They were unfortunate from the first, and ac-complished nothing. Simultaneously with this expedition, the Hudson Bay company sent out 2 men, Dease and Simpson, to descend the Mac-kenzie river to the sea, and follow the coast to

appearing among the crew, it was finally deemed

the west, as far as the point from which Beechey turned back to go out of Behring's strait. This would complete the survey of all that part of the American shores. They reached Return Reef, Franklin's furthest point (Aug. 1826), in July, 1887. Beyond this no one had ever been. They reached Point Barrow, the extreme point attained by Beechey in 1826, August 4, and thus completed their task. They gust 4, and thus completed their task. They discovered on the way two large rivers, which they called the Garry and the Colville. Re-turning to winter quarters on Great Bear lake, they started on another expedition, to explore to the eastward, in June, 1888. They reached the coast by way of the Coppermine. Finding their progress stopped by the ice, a portion of the party set out to the eastward, on an overland expedition. Passing Franklin's Point Turnagain, the furthest point hitherto reached from the west, they discovered an ice-encumbered strait (Dease's strait), and at its eastern extremity a large headland. To the north lay extensive tract of land, now first seen, and which they called Victoria land. Surmounting the ice-bound cape, the explorers to their surprise, found the sea beyond entirely free of ice; Victoria land stretching for 40 miles of ice; Victoria land stretching for 40 miles to the E. N. E., and the American coast trend-ing to the S. E. This was the limit of their ing to the S. E. This was the limit of their explorations in 1838. In an expedition the following year, they sailed through Dease's strait, and not only settled the coast line, up to the spot which Back had reached in 1834, but went beyond, and ascertained that the estuary of Back, into which they sailed, separates Boothia on the west from the American continuate the settlement of the se nent. In fact, they joined their discoveries very nearly to those of Ross, and were at one time within 90 miles of the place he fixed upon as the locality, during that year, of the magnetic pole. The entire American coast, along the Polar sea, was now explored, except along the Polar sea, was now explored, except that portion lying between Dease and Simpson's extreme point on the west of Boothia, and Ross's winter quarters on the east side of the same land; and that tract lying between Ross's winter quarters and the extreme point reached by Parry in 1822, at the entrance of the strait of the Fury and Hecla. The main question now was on the possibility of passing with ships between Boothia and the American mainland as if this were possible the passage down land, as, if this were possible, the passage down Prince Regent's channel would be the easiest Prince Regent's channel would be the easiest one, for the accomplishment of a passage to the north-west. To settle this question, an all-important one in its bearings upon future explorations, the Hudson Bay company, in 1846, sent out Dr. John Rae. He and his party reached Chesterfield inlet July 13, 1846, passed Repulse bay safely, and conveyed their boats thence into the gulf of Akolee. Wintering, however, at Repulse bay, the result asked for, from their expedition, was not attained till 1847. On April 5 of that year they started again into the gulf of Akolee. On the 18th they reached an inlet which Sir John

Ross had before discovered, in one of his land excursions, during his 2 winters' sojourn on the coast of Boothia, and (Ross having established the continuity of the coast to that point) thus proved that Boothia is connected with the American mainland, and that, consequently, there is no outlet toward the west, through there is no ottlet toward the west, through Prince Regent's inlet, and thus was destroyed the most plausible of all the suggested passages to the north-west—that which bade fair to be most generally open and practicable. Returning to recruit, May 12, Dr. Rae set out to ex-plore the eastern shore of the gulf of Akolee, plore the eastern shore of the gulf of Akolee, and connect his surveys, if possible, with those of Parry (1822) in the Fury and Hecla strait. On May 27, the party reached a point from which, during an interlude in the storm, they saw a headland, which Rae calls Cape Ellice, and computes to be in lat. 69° 42′ N. and long. 85° 8′ W., that is to say, within 10 miles of the Fury and Hecla strait. This completes the entire survey, with the exception of Fury and Hecla strait itself, and thus was finished, with this exception, a geographical exploration of the northern coast of the entire American continent, on May 27, 1847. entire American continent, on May 27, 1847.

—We come now to the last voyage of Sir John Franklin. The discovery of a north-west John Franklin. The discovery of a north-west passage was no longer a dream of the merchants. As a road to the Indies, this passage had been for some time given up, but the world of science anxiously demanded further and more complete explorations, mainly to establish the disputed separation of the American continent from the land to the north. There were enough men found, brave, hardy, and adventurous, to meet the wishes of the men of science. The achievement of a north-west passage was a life-dream of Franklin, and to him was intrusted the new, and—so it was hoped—final expedition. The Erebus and the Terror, long tried in arctic navigation, were the Terror, long tried in arctic navigation, were the vessels chosen for the voyage. Each was fitted with a small steam engine, and screw propeller to work in calms and head winds, and narrow Sir John Franklin commanded the ice gorges. Sir John Franklin commanded the Erebus, Captain Richard Crozier the Terror. The crews amounted to 188 men. The vessels sailed May 19, 1845, in company with a tender, with additional stores. This tender tender, with additional stores. This tender was relieved and sent home, in Davis's straits, where the vessels were fully provisioned and equipped for a 8 years' stay. On July 6, 1845, they were seen by a whaleship, in lat. 74° 1845, and long. 66° 13′, about the centre of Baffin's hay moored to an iceberg and waiting an fin's bay, moored to an iceberg, and waiting an opening into Lancaster sound. This is the last time the vessels were ever seen, and from this time arctic explorations were conducted with a main view to relieving Franklin's expedition, or discovering its remains. Franklin's expedition was very completely equipped in all reports and the property of spects, and no pains nor expense were spared to provide against any and all conceivable acci-dents in the regions of ceaseless ice. The in-structions of the admiralty directed Franklin,

tions, but with like non-success.

after sending home the transport from Davis's straits, to make the best of his way to Baffin's bay, and through this into Lancaster sound. Lancaster sound, Barrow's strait, and the passage to Melville island the admiralty thought likely to be clear of ice, and Franklin was therefore instructed to "push westward, without loss of time, in about lat. 74° 15', till you have reached the longitude of that portion of land on which Cape Walker is situated (North Somerset), or about 98° W. From that point we desire that every effort be used to endeavor to remetrate to the southward and westward in bay, and through this into Lancaster sound. to penetrate to the southward and westward in a course as direct toward Behring's straits, as the position and extent of the ice, or the existence of land, at present unknown, may admit." Beyond this, Franklin was given authority to unforescen emergencies should die-He sailed, as before said, in May, 1845. tate. Toward the close of 1547, nothing having been heard of the expedition, alarm began to be felt as to its safety, and early the following year (1848), 3 different expeditions for succor were despatched by the British government. The first of these, in the Plover, Commander Thos. Moore, and the Herald, Capt. Kellett, was to enter Behring's strait, and advance at least as for as Chamissa ideal in Kotzakov apparent. as far as Chamisso island, in Kotzebue sound, and then to examine the coast further to the eastward in boats. The expedition was joined and commanded by Mr. Robert St edden, who took a very active part in all the operations. The vessels reached Chamisso island July 14, and thence sent the heat expedition on to explore, if possible, as far as the Mackenzie river. The vessels meantime should to the north, unplore, it possible, as far as the Mackenzie river. The vessels meantime shoul to the north, until, in lat 72 '51' and long, 163' 48', they were brought to by densely packed ice. Still exploring, on Aug. 17 they discovered land, some islands, and a greater body of land, in about lat 71' 30, and long, 175' W. On Aug. 24, part of the best expedition rejoined the vessels, the remainder, 2 whale beats, having been despatched, according to previous instructions, up the Mackenzie river, to proceed homeward by way of Fort Hope and York Factory. The returned beats had explored the shore as far as Dease's miet, but had found no traces of the the assessing the first had found no traces of the lost voyagers. The following summer (1850), the 2 vosels recyplored the same ground, but again with it meeting with any traces of Franklin. The Plover, Capt. Kellett, was left to winter in Grantley harber, and the Herald to winter in Grantley harber, and the Herald contribution that of the land eturned home. Meantime, part of the land arty, under Sir John Richardson, reached the returned home. party, under Sir John Richardson, reached the Polar son, Aug. 4, 1847, making deposits of penimical by the way, at convenient points, along Mukenzie river. They then explored the shore to the cost for seaming to the mouth of the Coppermine. They found no traces for John Franklin. The next summer, 18 Sir John Franklin. The next summer, 1849, Sir John Richardson having returned to Eng-land, Dr. Rae explored the shores of Wollaston sound, and in 1850 he repeated his explora-

dition, that under command of Sir James Ross, sailed from England May 12, 1848, explored the south side of Lancaster sound, as far as Cape York, and thence across the mouth of Prime Regent's inlet, wintered at Laopold harbor, and the following spring (1849) explored the shores of North Somerset as far as lat. 72° 38° and long, 95° 40′ W., discovering what was not certainly known before, that North Somerset and Boothia were united by a narrow isthmus. They explored, also, portions of the shore north of Barrow's straits, and both sides of Prince Regent's inlet, establishing the partly consolatory fact that Franklin's party had not been lingering anywhere within their reach the pattern of the partly consolation. Nov. 3, 1849, without having fallen upon any traces of Franklin. The non-success of all these expeditions caused immediate and renewed efforts to be made. The general opinion of those lest acquainted with arctic navigation and with Sir John Franklin, was that his party was ice-bound among the islands to the west-ward of Melville island. Thither, therefore, were the next efforts mainly to be directed. March, 1849, the British government gave notice that £20,000 would be awarded to any private exploring party, of any country, which should render efficient aid to the missing explorers. In render efficient and to the missing explorers, in 1849 Lady Franklin had a supply of coals and provisions landed upon Cape flay, south side of Lancaster sound. In 1850 3 new expeditions were sent out by the British government, with in-structions mainly identical with those of 1848. The year 1850 was, however, to see many more expeditions than these 3 of the govern-ment. In fact, there were in all no less than 8. We will married thougall with the reserve of We will mention them all, with the portion of the general object intended to be accomplished by each. First on the list comes the continua tion of Dr. Rac's expedition of 1849. to penetrate further to the north than he had been able to do before; and to examine the shores of Bank's island, the coast about Cape Walker, and the north side of Victoria land. Two smaller parties were at the same time to follow the mainland to the westward, toward Point Barrow, one descending the Mackenzie, the other the Colville.—Next comes the Behring's strait expedition, consisting of the En-terprise, Capt. Collinson, and the Investigator, Commander McClure. They were instructed to cruise in company as far to the eastward as they could get; to make friends of the Esquimany; to make occasional deposits of provisions; and to prevent, by every means, any detention of the vessels in the ice. The Invastigator and Plover (the last already in the Pacific) were last in getting through Behrang's strait. The commanders of these two vessels having provisions sufficient to last till 1854 (from 1850), determined to push on resolutely, and explore as far as they possibly could; and here we must leave them.—Next comes the government Baffin's bay expedition, consisting

of the Resolute, Capt. Austin, and the Ass sames, Capt. Ommaney—sailing vessels—and the Piesser and Intrepid, Capt. Sherrard Osborne, both screw propeller steamers. The instructions to this expedition were mainly of a similar tenor to those given the Behring's strait commanders. This fleet sailed in the spring commanders. This neet same in the same of 1850. The schooner Felix, and a small tender, the Mary, formed an expedition put forward by public subscription, and commanded by Sir John Ross. He sailed in April, 1850, provisioned for 18 months, and designing to commence at Cape Hotham, at the west side of the entrance of Wellington channel, and examine all the headlands to Bank's land. Finding nothing, he then intended to leave his tender and rush forward for a second season in the Felix. The Lady Franklin, fitted out by Lady Franklin, and commanded by Capt. Penny, with the brig Sophia, sailed also in 1850, intending to explore as circumstances should seem to direct, but having a general plan some-what similar to the government expedition.— Lady Franklin also fitted out and defrayed twothirds of the expense of another expedition, consisting of the schooner Prince Albert, commanded by Commander Charles Forsyth and Mr. W.
P. Snow, both volunteers. Their object was to
examine the shores of Prince Regent's inlet
and the gulf of Boothia, and to send out overland travelling parties to explore the western
side of Boothia, down to Dease and Simpson's
strait. The Albert sailed in June, 1850.—The
Advance and Rescue, under the command of
Lieut. De Haven, formed an American expedition, fitted out by the United States government, but at the cost chiefly of Henry Grinnell,
Esq., of New York. This expedition left New
York May 24, 1850. Its plan was to push forward, without delay, toward Bank's land and
Melville island, and generally to make the best
use of every opportunity for exploring in that Lady Franklin also fitted out and defrayed twouse of every opportunity for exploring in that direction.—Lastly comes the North Star, a transport ship, containing stores for the expedi-tion of Sir James Ross. She wintered at the head of Wostenholm sound, in lat. 76° 88′, the furthest north any vessel ever wintered except Dr. Kane's, and returned to England in Sept. 1850. It will be seen that there were now than 11 vessels, exclusive of the North Star, on the eastern arctic waters. Capt. Ommaney of the Assistance, came upon the first traces of the missing mariners, at Cape Riley, Aug. 23, 1850. A more minute examination of the country immediately surrounding gave indisputable proof that Franklin's party had sojourned about there for some time. The site of
a tent, paved with small stones; quantities of
birds' bones lying around; as also meat caniswere the traces discovered at Cape Riley. At Beechey island, about 8 miles west of the cape, and just at the entrance of Wellington channel, Lieut. Osborne finally came upon the encampment of the party—in fact the first winter quarters of Sir John Franklin. The objects here discovered were a large number of empty

preserved meat tins, the embankment of a house, with carpenters and armorers' working places, and other remains of a large establishplaces, and other remains of a large establishment; and finally, the graves of 3 men belonging to the Erebus and Terror, which bore date of the winter of 1845–8. Further on, on the island, there were the remains of a garden, and various articles of apparel lying about. Lieut. De Haven, of the American expedition, visited the place on Aug. 25, and made another thorough search. The officers of the Prince Albert, as well as Cant. Panny also expended the arms as well as Capt. Penny, also examined the en-tire ground very minutely. Singularly, not all this searching brought to light any document which could give the slightest trace of the fu-ture intentions of the party. Taking for granted the fact that there was nothing of the kind left, it is only to be supposed that they had so far met with no extraordinary perils, and de-parted from the island in a very sanguine frame of mind, little thinking of the terrible fate which was but just coming upon them. The belief of those having the greatest experience and the The belief best judgment, is, that the lost party were detained at Beechey island till late in the season (1846), and that, on account of some sudden (1846), and that, on account of some sudden movement in the blockading ice, they departed suddenly. The government ships wintered but of 1851 was devoted to land expeditions, in which the shores of Wellington channel, the coast of Bank's land, and the waters leading from Barrow's strait to Melville island, were to be thoroughly explored. The various parties made a thorough search on their different routes, discovered 675 miles of hitherto unknown coast, but found no trace of the lost. Lieut. McClintock's party reached on this occasion the furthest western limit ever attained by arctic explorers, starting from Baffin's bay, a point in long. 114° 20′ W. and lat. 74° 38′. From the wondrous tameness of animals found here-abouts it would seem that few if any human beings had ever touched this point before.beings had ever touched this point before.—The conclusion deduced from the failure of all efforts in these directions to obtain traces of Sir John Franklin, was that he had not gone to the southward and westward of Wellington strait, as had been hitherto taken for granted. A disas had been hitherto taken for granted. A discovery by Capt. Penny of a hitherto unknown channel, opening northward from Wellington channel, corroborated the above conclusion; although neither here were traces found of the party. The newly discovered strait was called Victoria channel.—Dr. Kane's opinion, on ex-amining the sledge tracts about Cape Riley, was that Sir John Franklin had passed to the north, with his ships, on the breaking up of the ice in 1846; had gone through Wellington channel into the supposed Great Polar basin, and had never returned.—The American expedition, which had gallantly led the way, wherever they could go, and whose commander earned for himself at the hands of the English the sobriquet of "the mad Yankee," after undergoing much suffering and considerable danger, arrived in New

York, the Advance on S pt. 50, and the Resons on Oct. 5, 1-51; On. June 3, 1-51, the Prince Albert, and hind or oght to England news of the discovery at Beschoy island, was dispatched the discovery at Beschey island, was dispatched by Laty Frankin or another expedition to explore the solves of Prime Reports inleft. Since the solves in Oct. 1856. The endy in ident bearing even remotely upon the solven, was that at a point of word Fury beach and Cope. Waker, a ratify arrocance upon a carriant a dept to of precise as left by a party under Capt. Austin. The growth temp deeply covered with snow, Capt. Kennedy actually to know and waked over the provision dept, with a rational its over the provision depot without noticing its prescribed a circumstance which would seem to prostices a circumstance which would seem to postice the supposition that Franklin's signals and traces might have been passed over in the same way. The final and thrin conclusion drawn from the final non-since soft all the expeditions, including Dr. Rac's, of 1851, which was very there ign, was that Franklin had never remoded so far so the as the American mainland, or the so far so the active an inaminated, or the peninsulas connected with it. Sir John Ross had brought back a report that the Franklin party had been marel red in Wostenholms und, by the Espaniaux. To establish the truth or falsity of this ramor, hady Franklin sent the Isabel series steamer, Commander Inglefield, to explore the sound. Heleft England in July, 1852, examinal Wostenholm sound—inding no traces examine ! Westenholm sound-finding no traces of the thermal one-sailed up Smith's sound to lat. 7s. 2s. 21"-140 miles further than previous manigators had reached—found, as he thought, a more genial climate than existed to the south, and established, in this voyage, the presence of a strait or channel connecting Bafpresence of a strait or channel connecting Dais fin's say with the great Polar basin. Meantime, in obside note to the Wellington channel theory, Sir Edward Belcher was sent out in April, 1852, in continued of 5 vessels, the Assistance, Resolate, North Star, Propert, and Intropol-the last 2, Scanors. The North Star was to be the depot and store ship, the Resolute and In-tropid were to stor west, to the assistance of Collaboration and McCare. The Assistance and Proper were to pesh up Wellington channel. In the spring of 1800, more expeditions were out by Mr. Grandell of New York, Mr. Pea-lesdy of London, and others, and commanded by Dr. E. K. Kine, who had acted as surgeon, has it and, and better former Grinnell expedite to under De Haven. Lindy Franklin sent expected in under 16 Haven, Indy Franklin sent out the Battle-tiake, and Isabel, steamer, for Behring's struct, to assist Collinson and Me-Clire. Or has was despatched for another exploration of Beethaa. And, finally, the Iady Franklin and Phonix, Capt. Inglefield, were sent to Barrow's straits, to aid Sir Edward Belcher. With Inglefield on this expedition was lielled, a gallant young Frenchman, who was lost lot, a gallant young Frenchman, who was lost for a 18 1855, by being blown off some floating and a westward a wealthing of Belcher. I've westward expedition of Belcher timb a uniter of explorations in the general direction of their line of search, toward Mel-

ville island. They found no traces of Franklin; but fortunately succeeded in finding and rescuing McClure and his ship's company, who had been buried in the arctic ice since the summer of 1950—3 long years. These returned home with Beleher, abandoning their ship; and are thus the first and only ship's company who ever entered Behring's strait and returned to Europe by Haffin's Lay. Thus was established, at last the great fact that there was a continuous persage by water from Baffin's bay to Behring's strait parallel with the coast of the American continent. McClure reached, in his ship is continent. McClure reached, in his ship is 1850, within 60 miles of the western terminal of Barrows's strait, and thus had nearly passed through with his vessel. The crews under through with his vessel. Bel-her's command had meantime made extensive explorations by land during the spring and autumn of 1853, and the spring of 19 autumn of 1853, and the spring of 1854. In Assistance and Pioneer penetrated up Wellington channel to lat 75° 10°, making various discoveries of new land and islands. When the vessels were brought to by ice, the officers set out on sledges, and penetrated over, and to a point which Belcher considered an opening into Jones chan-nel, from the east. Here, to their surprise, as early as May 20, all sledging operations were stopped by open water. They found at variant points structures of ice, too wen come to see work of natives; but nowhere the slightest tangible trace of Sir John Franklin. In the spring of 1854, the vessels composing the expension of 1854, the ves spring of 1854, the vessels composing the expa-dition, the Assistance, Resolute, Piones r. In-trepid, and McClure's ship, the Investigator, were abandoned, their crews taken on board the North Star, Phonix, and Tailou, and the entire party arrived in England in Sect. 1854. It must be mentioned here, that McClure, the total disappeared in the agreef on Family Aug. 1850, discovered in the ear of an Esqui-manx chief, near the mouth of Mackenzie river, a flat brass button. On being asked where he obtained this, the chief made answer that it had been taken from the ear of a white man who had been killed by one of his trube. The white man belonged to a party which had landed at Point Warren on or the mouth of the Macken-zien and there built a house. Nobesty knew how they came, as they had no boat. But they went inland. The man killed had strayed from the party, and he (the chief) and his son buried him on a hill at a little distance. W or the exact spot where this occurred, could not be ascertained. Neither the grave nor the house was found. Collinson, McClure's constanting on the DA and the Collinson of the Co house was found. Collins on McClure's com-panion on the Behring's strait expedition, eventually returned to England by the way he came. He made numerous discoveries of came. The made numerous discoveries of land, and explorations, in the neighborhood of Bank's land, Wollaston land, Albert land, and Victoria land; at Cambridge bay in Wollaston would, in about lat, 70° and long, 117°, when his vessel passed the winter of 1552-3, he saw in the passed the winter of 1552-3, he saw in the passes. session of the Esquimaux a piece of iron and fragments of a hatchframe or doorway. These he thought must have belonged to Franklin's ships. But he was unable to obtain any intellia regard to the manner in which the Escar came into possession of them. This sonly trace of Franklin with which he There remained now only Dr. Rae's exa to Boothia, and Dr. Kane's American ion to hear from. Dr. Rae reached Pelly the southern termination or bottom of Regent's inlet, in April, 1854. Here he quimaux who had in their possession varticles of silverware, &c., belonging to officers of both the Erebus and Terror. telligence obtained by him of the natives summed up as follows: In the spring some Esquimaux killing seals near the shore of a large island known as King n's land (some distance westward of Pelly aw a party of about 40 white men pass to thward, along the western shore of this They were dragging a boat and sledges been. They could not speak Esquimaux, a retires gethered that their chiral ships had

They were dragging a boat and sledges bem. They could not speak Esquimaux, e natives gathered that their ships had rushed, and they were now going where ruld find deer to shoot. They purchased a rovision from the natives, who judged that rere nearly destitute of food. The officer bem was described as a tall, stout, middleman. At a later date, the same season, revious to the disruption of the ice, the so foome 30 persons, and some graves, liscovered on the continent, and 5 dead on an island near it, about a long day's y north-west of the mouth of a large supposed to be Back's river. Of the on the island, one was supposed to be a as he had a telescope slung about his These men, from all appearances, had riven to cannibalism before they perished. the fact that shots were heard, and the res of wild fowl were found near the bodies, njectured that a few of the men survived ty, 1851. They seem to have had an ance of ammunition. There were, also, are of telescopes, guns, watches, &c., pieces ch articles were found among the natives. Rae, in considerable quantities. Dr. opinion was that the party died by start, and not by the hands of the natives. Anderson was sent out in 1855, to exmore perfectly the spot designated as the of so much suffering. On June 30, a little om the mouth of Back river, he came some Esquimaux, who had with them ous articles belonging to a boat equipage, atives stated that the owners of these's had died of starvation. On reaching eal island, where the 5 men had perished, ing to report, Mr. Anderson found chaintools, rope, bunting, and a number of strung together, on one of which was

eal island, where the 5 men had perished, ing to report, Mr. Anderson found chaintools, rope, bunting, and a number of strung together, on one of which was the name of Mr. Stanley, surgeon of the s. On a plank was found the word or." Not a vestige of the remains, nor sper, was found. At Point Ogle some articles were also found, but no bodies. arty were unable to reach King William's he scene of the chief disaster.—With the

account of Dr. Kane's explorations at the head of Smith's strait, closes the history of arctic exploration and adventure. Dr. Kane sailed in the Advance from New York, May 30, 1853. The discoveries of Inglefield in Smith's strait, and these of Belcher at the head of Welliam. and those of Belcher at the head of Wellington channel, had produced in his mind the convic-tion that there was somewhere between the 80th degree of north latitude and the north pole, a vast open sea, and a milder climate than was found some degrees to the south; and further, that in this sea were to be sought, and he hoped found, tidings of Sir John Franklin's long absent expedition. His determination was, therefore, to penetrate as far up Smith's strait as possible, in the hope of being able to enter the Polar sea, and there have clear water, for his explorations. He entered the ice Aug. 2, and on the 20th found shelter from a hurricane under lee of a rocky island, which he named Godsend ledge. Leaving his men, on the subsidence of the gale, to tow the vessel along the ice, Dr. Kane, Aug. 29, passed ahead, with a boating party, to explore the coast. He thus passed numerous points of land, and reached Cape George Russell, whence he saw the great glacier of Hymboldt with Cape Jackson on one side. of Humboldt, with Cape Jackson on one side, Cape Barrow on the other, and a sea of solid Cape Barrow on the other, and a see of ice between. Not finding, on this trip, a good place for winter quarters, he returned, and the Advance was moored for the winter in Van Rensselaer harbor, in lat. 78° 87' and long. 70° 40'. During the continuance of daylight in the autumn, excursions were made into the interior of Greenland, in which over 800 miles were traversed, and the coast was traced for 125 miles to the north and east. During this winter the to the north and east. During this winter the thermometer fell to 99 degrees below zero. Their winter harbor is further north than that of any other expedition whatever, and nowhere else but at Spitzbergen are Christians known to have passed a winter so near the pole. With March they were again cheered by the sun. But the crew were much enfeebled by the long winter. It was not till April that Kane started on his chief sledging tour to the north, in which he hoped to "attain the ultima thule of the Greenland shore, measure the waste that lay between it and the unknown west, and seek round the furthest circle of the ice for an outlet to the mysterious channels beyond." Owing to the severity of the climate and great obstacles, the expedition failed in its main object. they discovered on this trip some remarkable natural features: the Three Brother Turrets, Tennyson's Monument, and the Great Glacier Tennyson's Monument, and the Great Glacier of Humboldt. They returned to the vessels May 14. Dr. Hayes and William Godfrey started on another expedition May 20. They crossed Smith's strait, and attained to lat. 79° 45' and long. 69° 12'. They saw, 30 miles ahead, 2 capes which they named Capes Joseph Leidy and John Frazer. On June 30, Messrs. McGary and Bonsall left on a 3d expedition, Kane being yet ill. They reached Humboldt glacier on the 15th. Four of the party returned

on the 24th, entirely blind. Two pushed on, and on June 21 saw open water to the north, called by them Kennedy channel. They penetrated as far as Cape Constitution, in Washington land, lat. 82° 27′. The open channel alumnled with animal life. abounded with animal life, such as bears, birds, and seals. The results of this excursion prove that Smith's strait in fact opens into Kennedy channel, and this opens into a great open polar sea, abounding with life. The shores of Ken-nely channel and Smith's strait had been explored for 760 miles. Mr. Morton returned to the ship on July 10. Dr. Kane, seeing no probability of the release of his vessels during this summer, determined to communicate with Releter's expedition. Failing in this, it was determined that part of the crew should abandon the vessel. The party, however, returned after a few days, and the crew were now beset for another winter. During this winter it was re-lved to abandon the brig in early spring, and make for the Danish settlements at the south. On May 17 they left in boats and sledges, and after much privation and many narrow e-capes, reached Upernavik Aug. 9, in 84 days from the time of leaving the Advance. Fears for Kane's safety had induced the United States navy department to send out, in the spring of 1855, 2 vessels, the Release and the steamer Arctic, to the relief of the missing brig's crew. Hartstene, who commanded this expedition, reached lat 78° 32 and then found his enward progress stopped by a firm barrier of ice. Returning he found Kane and his crew at Upernavik, and returned with them to the United States, in the fall of 1855. In a scientific point of view, Dr. Kane's expedition attained the most important results of any arctic expedition whatever. These results cannot be more concisely or clearly summed up than is done by himself in his report to the navy department of the United States, as follows:

1. The strong and delineation of the morth coast of Greenlandt, tot on his only a great glacier.

The strong of this glacial mass, and its extension north-warlier to the last financed Washington.

The last of a large channel is the morth-west, free free to the strong of a large channel to the morth-west, free free to the strong of a large parallel gardage as a compact of the strong of the st

The Reschite, or each Sir E. Belcher's expedition, wise as before mathemed, abandoned May 15, 1854 not for from Beschey island. On Sept. 15 1855, she was discovered by Captain Biddington, of the tosign Henry, whaleship, of New London, of the west shore of Baffin's bay, in he of N. The vessel was encombored with ice in the particular that have she was retaken, was at hast 12 50 miles. She was brought to New London, purchased by the U. S. govern-

ment by order of congress, thoroughly refitted, and presented to Queen Victoria and the British government, in December, 1856. The British government took possession of her, and had her stripped and laid up in ordinary in Woolwich dockyard.

ARCTURUS, formerly a con-tellation near the Great Bear, whence its name, approximate the hear's quart (or ever, tail). Later the name

ARCTURUS, formerly a con-tellation near the Great Bear, whence its name, aparosopes, the bear's guard (or oppa, tail). Later the name was confined to the largest star in the constellation, which was afterward called Bootea. It is a star of the first magnitude, and was at one time erroneously believed to be the star nearest to our system.

to our system.

ARCUATION (Lat. areva, a bow), a term used to designate a method of propagating trees. The shoots sprouting from the stools or stems of the trees cut off near the ground, are best over, and a portion of them is covered with earth; the shoots take root, and thus the tree is propagated. The term is, however, now obsolete.

ARCUEIL, a small village of France, is miles S, from Paris, on the Bièvre. It is colsbrated for an aqueduct constructed there by the Roman emperor Julian during his abode in Paris, to convey water from the Bièvre to his palace. Remains of this are still seen near the modern aqueduct, constructed by Maria de Medici, in 1618, to bring water to supply the gardens and the palace of the Luxembourg and the fountains of Paris. Arcued is a favoriat resort of the Parisians on holidays. It was for a long time the residence of the chemist Berthollet. As he frequently met at his house many of his learned friends who were devoted only to the study of the physical sciences, they formed together, in this tranquil retreat, a scientific society which, under the name of Sexiste d'Arcueil, published several volumes of memoirs. The population of the village is 1.616.

ARCY, GROTTE D', the name of a vast stalactitic cavern, consisting of many compariments, situated in the department of Yonne, in
France, within a short distance from the listile town of Vermanton. The hill in which
this remarkable excavation exists stretches into
the valley of the river Cure. A narrow path
over a wooded hill conducts to its entrance.
One of the compartments is 1,200 feet long.
85 feet high, and 40 feet wide. In the first 2
compartments are found large blocks of stone,
and in the 2d compartment is also a spring of
good water. In the other compartments a
number of stalactites hang from the roof, while
stalagmates rise, column-like, from the ground.
The crystallizations are formed by the water,
as it filters through the oversrehing rock, as
well as on that part of the ground on which
it drops. As the crystallizations rising from
below are thus exactly under those depending
from the roof, they frequently units and form
pillars. The caverns are supposed to have
been quarries in former times, but to have been
abandoned so long that every trace of human
labor is obliterated. It is said that the stone

with which the cathedral of Auxerre was built

was taken from the Grotte d'Arcy.

AROY, PATRIOK D', a distinguished engineer, born at Galway, in Ireland, in 1735, died at Paris in 1779. His parents, in consequence of their attachment to the house of Stuart, left Ireland and settled in France. In 1746 he bream and settled in France. In 1425 he found in the French army against England. He fell into the hands of the British commander, Admiral Knoweys, but was released after a short time of imprisonment and returned to Paris, where he devoted himself to scientific inventions. entific investigation. He wrote some able es-says on mechanical science, and in 1749 he was ays on mechanical science, and in 1749 he was received a member of the French Academy. In 1757 he reëntered the army, and took an active part in the battle of Rossbach. In 1760 he published an essay on artillery, containing, among other interesting subjects, an account of experiments made by him to determine the most advantageous length of cannon. He is also the author of a paper on hydraulic machines, and of a paper on the duration of the chines, and of a paper on the duration of the impression of light on the retina.

impression of light on the retina.

ARDKA, a small village of the Pontifical states, in Italy, 20 miles S. of Rome, and 8 miles from the Mediterranean. It is the capital of the ancient Rutuli, and near it are some Cyclopean remains.

ARDEBIL, or ARDEBYL, one of the principal towns of the province of Azerbijan, in Persia, is situated on a branch of the Araxes, 40 miles west of the Caspian sea. It contains about 600 families, and is surrounded by a ruined mud wall. It is an emporium of the caravan trade of Tiflis, Derbend, and Bakoo with Ispahan and Teheran. Two of the ancestors of the Sufite kings of Persia are byried here, and their towns are highly are buried here, and their tombs are highly venerated by all Mohammedans.

ARDECHE, a department in the south-east of France, wholly of a mountainous charac-It contains important blast-furnaces for and is noted for its extensive tracts of chestnut trees, the annual produce of which is estimated at 400,000 bushels. It also abounds in mulberry trees and vineyards. Pop. 886,--Ardiche, a river of France which rises in the mountains of Cevennes, and, after a source of 45 miles, falls into the Rhone, near Pont St. Esprit. In the earlier part of its course it threads the most magnificent scenery, and before it reaches the Rhone falls over an almost perpendicular precipice to a depth of 100 feet. At this point is the famous bridge At this point is the famous bridge of Arc

ARDELAN, a district of Persia in Koor-distan, and a part of the province of Irak Ajemee. The chief towns are Sinna and Kermanshah.

ARDEN, a forest in which Shakespeare places the scene of his "As You Like it." According to Walter Savage Landor, it began near Stratford-upon-Avon and extended to Redditch and the Ridgeway, the boundary of Warwickshire and Worcestershire, having for its

centre the little town Henley, called to this day

Henley-in-Arden.

ARDEN, Edward, a British Catholic, born at Parkhall, Warwickshire, England, in 1581, executed at Smithfield in 1584. He was of an ancient and respectable family, and, although a stanch religionist, by his integrity and loyalty had succeeded in preserving his possessions entire, and in holding his faith unmolested until the unfortunate occurrence which caused his the unfortunate occurrence which caused his death. In 1583 his son-in-law, John Somer-ville, a Catholic gentleman of fortune, while on visit at his house, was persuaded by one Hugh Hall, a priest connected with Arden's household, to attempt the life of Queen Elizabeth, as the only means of delivering the realm from Protestant sway. Somerville actually departed on this mission, and while on his way to London attacked several Protestants, which led to his arrest and that of Hall, on a charge of high treason. The latter being put to the torture made a statement which led to the arrest of Arden and his whole family. Arden and Somerville were tried, found guilty of treason, and executed, while the others were pardoned. Arden's fate excited universal commiseration at the time, and the severity of his sentence was ascribed to the influence of the earl of Leices. ter, between whom and the Arden family a hereditary feud existed. Arden, himself a man of high spirit, had once called the earl an "up-start," and the offence seems never to have

start," and the offence seems never to have been forgiven.

ARDEN, RICHARD PEPPER, Lord Alvanley, chief justice of the court of common pleas of England, born at Bredbury in 1745, died in 1804. He was called to the bar in 1769, and soon after became intimately associated with William Pitt. In 1776 he was appointed a justice in the South Wales circuit, and in 1780 king's counsel. Upon the formation of a new cabinet at the death of the marquis of Rocking-ham, he received the appointment of solicitorham, he received the appointment of solicitor general and entered parliament. Upon Pitt's ccession to office he became successively solicitor-general, attorney-general, master of the rolls, and in 1801, on the resignation of Lord rolls, and in 1801, on the resignation of Lord Eldon, chief justice of the court of common pleas, on which occasion also he was created a peer, under the title of Baron Alvanley. He lived but 8 years, however, to enjoy his new honor

ARDENNES, or ARDENNE, a hilly district of Luxembourg, Belgium. It is wild, wooded, and thinly inhabited. It has manufactories of fire-arms and hardware. Cattle, sheep, and horses are raised in great numbers, but little grain.—Also a frontier department of tle grain.—Also a frontier department of France, contiguous to Ardennes in Belgium, with which it was formerly united. It has a mountainous wooded surface, and a chilly and humid climate. It is watered by the Meuse and Aisne rivers, connected by the canal of Ardennes, which furnish valuable means of in-land transportation. It has manufactures of fire-arms and metallic wares, earthenware,

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glass, and chemicals. Area 1,955 square miles,

glass, and chemicals. Area 1,955 square miles, which is divided into the arrondissements of Mezières, Rethel, Rocroy, Sedan, and Vouziers. Capital Mézières; pop. 332,000.

ARDESCHIR, or ARTAKERES BAREGAN, founder of the Persian dynasty of the Sassannides, died about A. D. 260. His father, an obscure shepherd, claimed descent from the recal line of Daring who was congagned by royal line of Darius, who was conquered by Alexander the Great, and the son, remarkable in his youth for courage and force of character, by ingratiating himself with the governor of Dirabjeid, gradually gained an importance which brought upon him and his patron the enmity of Ardovan, the king of Persia. Ardeschir then boldly announced his intention to recover the throne of his ancestors and to exterminate the descendants of its usurper. He gave battle descendants of its usurper. He gave battle to Ardovan, whom he vanquished, and put to death, and caused bimself to be proclaimed Shahan Shah, "king of kings," Profiting by this victory, he rapidly recovered the provinces constituting the old Persian empire, and even extended its limits. The first 30 years of his reign were devoted to wars and conquests, and his victorians arms were corried from Charries his victorious arms were carried from Georgia on the north to the banks of the Indus. His victories, however, do not constitute his sole claim to renown. During the years of profound repose which marked the latter part of his reign, he cultivated the arts of peace with an enlightened zeal. As a jurist and legislator he

who well remarkable capacity, and many of his maxims are preserved to the present day.

ARDGLASS, a scaport town and parish of Irsland, county of Down, on the Irish sea. It is a bathing place, and is the rendezvous for the vessels engaged in the fisheries on this line of the Irish coast.

ARDOCH, a village of Scotland, county of Perth, near which are some remains of a Ro-man camp, the most complete in Great Britain,

ARDRAH, or Azka, a town of Africa, capital of a province of the same name, kingdom of Dahomey, about 20 miles from the sea-coast,

and bordering on a small lake; pop. 10,000.

ARE, the unit of surface in the French system of measures, equivalent to a square deca-metre, or 1076 44 English square feet. Parts of an are are expressed by Latin profixes, deciare, centiare, &c., signifying one-tenth, one-hundredth, &c., of an are. Multiples of an are have Greek prefixes; declare, hectare, &c., signifying, ten, one hundred, &c., ares.

AREA, in geometry, the number expressing the size of a surface as compared with a unit of surface. A square of given size is usually taken as the unit, and usually a square whose side is a linear unit, such as an itah, a yard, or a mile. In this case, the area of a rectangle is evidently the product of the length by the breadth, and the area of a triangle half the product of the base by the altitude. The area of all other surfaces whatever is found by dividing the sur-faces into triangles or rectangles. When the surface is curved or has curved boundaries, these

triangles or rectangles must be conceived of infinitely small, and their amount can usually be calculated only by the aid of integral calculus.

AREMBERG, the name of an old German noble family, derived from a town and castle situated between Cologno and Julich. The counts of Marck possessed Aremberg units 16th century, when it passed to John Braban-con, of the house of Ligne, and was creeted, in 1576, into a German dukedom, which disap-peared on the dissolution of the German emoire by Napoleon, though the family retained pire by Napoc the ducal title. the ducal title. The Arembergs were always adherents of the Catholic church, sided with Philip II, and afterward served the house of Austria, in both civil and military capacities. They now reside at Brussels, and the wealthiest nobles of Belgium and Germany. As the owners of extensive estates in Hanover and Prussia, they belong to the privileged nobility, Standesherra, in both those

kingdoms,
ARENA, Bartolommeo, a French politician,
born at Isola Rossa, Corsica, toward 1765, died
at Leghorn in 1829. He early became known by the fervor of his political opinions and his devotion to France. He was active in organizing devotion to France. He was active in organizing the national guard in his native island. As deputy to the legislative assembly of France, be was among the most patriotic members, and denounced the designs of his countryman Paoli long before they were publicly developed. accusations became so vehement and appeared so well grounded that Paoli was summoned to the bar of the national convention, to which he replied by inviting the English to Corsica. Meanwhile Arena was declared infamous by the meanwhile Arena was declared infamous by the so-called national assembly of the island, and sentenced to banishment. Nevertheless, in concert with Casabianea, he sustained Calvi against the English, who were under the command of Nelson; but finally was obliged to surrender the town Ang. 10, 1794. He then repaired to France, where he bitterly complained of the apathy of the convention at the loss of Corsica. On the evacuation by the loss of Corsica. On the evacuation by the English, he returned to the island; and in 1798, after a severe contest and bloody riots, he was chosen member of the council of Five Hundred by the electors of Golo. He showed himself by the electors of Golo. He showed himself always an unfinching republican, and none of the deputies exhibited more energy in opposition to the military revolution of the 19th Brumaire. It was reported at that time and currently believed, that Arena had rushed at Bonaparte with a dagger and exclaimed that if Cosica had produced a Casar, it should also have a Brutus. He publicly denied the attempt at assassination, though persisting in his abhorrence of the usurpers persisting in his abhorrence of the usurper's act. He was sentenced to be transported with several of his colleagues, but escaped the search of the police and retired to Italy, where he lived schuded at Leghorn. He constantly upheld his republican opinions, and always

exied the establishment of a European demcommonwealth.—Grusappe, a younger of Bartolommeo, particularly known is participation in a conspiracy against particularly known is participation in a conspiracy against participation in the very early in the devotion to the principles of the pri only 21 years old, he was appointed comer of a battalion of Corsican volunteers, listinguished himself at the siege of a. In 1796, elected to the council of a. In 1796, elected to the council of Hundred, he served one year as a deputy, hen returned to the army; but resigned ost on the revolution of the 18th Bru, in order to avoid serving under Bona-He then repaired to Paris, where he ed in a conspiracy devised by certain trepublicans, Ceracchi and Topirio-Lebrung the number. Bonaparte was to be

g the number. Bonaparte was to be insted at the opera; the signal was to iven by a young man named Diana, the others were to be in readiness to supim; but their plan had been revealed to

chice, who were on the alert and noise-arrested the conspirators during the d act of the performance. Arraigned e the criminal court, they defended theme the criminal court, they defended themwith such ingenuity, and there was so
material evidence against them, that they
d probably have been acquitted but for
er and quite different attempt against
first consul: the explosion of the inmachine Dec. 24, which was at first
ed to the republican party, while it was
ork of royalists. The criminal court, as
as the convernment thought it necessary to ork of royalists. The criminal court, as sethe government, thought it necessary to rrage further conspiracies by influsible ity; consequently the proceedings were ed. Arena, Topirio-Lebrun, Ceracchi, and rville, were sentenced to death Jan. 9, and executed on the 30th. They subdot to their fate with heroic constancy.

ENAC, an eastern county of Michigan, ring on Saginaw bay. Its surface is y heavily wooded. It covers an area of to 544 square miles. It is unorganized. ENDAL, a seaport town of Norway, on ikager-Rack, lat. 58° 28' N. long. 8° 32' skager-Rack, lat. 58° 28' N. long. 8° 32' it is built on rocks projecting into a most sodions harbor. It possesses nearly 200 chiefly engaged in the lumber trade, and yards for ship building, a custom house, commercial school. Near it are productors wines.

ron mines.

ENDT, MARDIN FRIEDRICH, a Danish t, born at Altona in 1769, died near Venice 4. He was distinguished by his scientific ration of many European countries, and vestigation of the ancient Celtic languages, ology, and history. After having prehimself for his travels by careful botanical hilological studies, he was sent by the h government in 1798 on a botanical tour Anmark; but, as he was not successful in ag a botanical collection, he lost the office, upon the recommendation of Count Reventlow, he had previously held in the botanical gardens of Copenhagen. He had made, however, many interesting archeological observations, and explored districts of northern Norway, which had never been visited before. way, which had never been visited before. Subsequently he travelled in Sweden, France, Switzerland, Hungary, Italy, and Spain. He published many articles on history and philology in French, German, Swedish, and Danish peri-odicals, and a portion of his manuscripts and drawings in reference to Scandinavian archeology are preserved in the royal library of Copenhagen. He was a devoted linguist, and on his travels was always in the habit of carrying about him a great number of lexicons. While at Naples one of his Runic dictionaries attracted the notice of some Neapolitan police attracted the notice of some Neapolitan police officers, who looked upon it with the greatest suspicion, taking it for a Carbonari document. He was arrested, and the long time which he had to pass in a badly ventilated prison before his discharge could be effected, had an injurious effect upon his health, and accelerated his death, which took place shortly afterward.

ARENSBURG, a seaport town of Russia, government of Livonia, on the south coast of the island of Oesel, of which it is the capital. It is situated at the mouth of the gulf of Rigs.

It is situated at the mouth of the gulf of Riga, and has a considerable trade, though, owing to the shallowness of the harbor, all but small vessels generally anchor in the roads, 5 miles from

ARENSHARDE, a district of Denmark, in the duchy of Schleswig. It is noted for the old Danish wall which runs through it, built in the 9th century, to defend Denmark from the incursions of the Saxons and Slavi. The wall extended completely across the country, and was 46 miles long. The people of this district are said to have been the first in Denmark to embrace Christianity, and a church was built there

orace Christianty, and a church was built there in the year 826.

AREOMETER, an instrument for determining the specific gravity of liquids, and by this the strength of spirituous liquors. Its more common name is hydrometer. The principle upon which it is constructed is this: when a bulb of glass or metal is immersed in water weight of an equal bulk of water, and in any other liquid by a pressure equal to the weight other liquid by a pressure equal to the weight of the same bulk of this liquid. When the different weights are known of this bulb in water ferent weights are known of this bulb in water and any other liquid, the weights of equal bulks of these fluids are known, and the proportions of weight of one to the other. The areometer is a hollow bulb of glass or metal, with a weight below it to partially sink it, and keep the graduated stem above it in a vertical position. On this stem is marked the point at which the surface of the fluid cuts this stem, when it is immersed in pure water. In a saline solution it would not sink so deep and the solution it would not sink so deep, and the mark upon the stem at the surface is made to designate the density of the fluid compared with water, by reference to the tables which

accompany the instrument. In a lighter fluid, as spirituous liquors, it would sink below the pure-water mark, and the stem indicates, by its graduation, the proportional less density of the fluid than water. Sykes's hydrometer is the form adopted by the British government, and Baume's, of which there are two kinds, one for liquids heavier and another for liquids lighter than water, are in common use in France, and also in this country. A simple form of areometer is a set of glass beads, numbered and adopted. When these are put in any liquid, the one of the same specific gravity with this liquid will float just beneath the surface. The mark upon this indicates, in thousandth parts, the specific gravity of the liquid.

and this indicates, in indicated parts, the specific gravity of the liquid.

AREOPAGUS, the hill of Ares, or Mars, a craggy eminence in the city of Athens, not far from the Aeropolis. In Greek annals it is famous as the spot where the celebrated council, or court of the Areopagus, held its sittings. This body was distinguished, even beyond the limits of Greece, by its great antiquity and high character, an antiquity dating back beyond the age of Solon, a character resting on the lofty position and spotless famo of its members. Solon is supposed to have introduced changes into the constitution of the Areopagus, and to have extended its functions, so that from being a merely criminal tribunal, its jurisdiction reached the general morals of society, and the political affairs of the state, touched every thing, in fact, which concerned the public weal. The court had duties connected with education and religion, had authority to punish impacty and sacrilege, and was charged with the preservation of the sacred groves. Its power was affected by the changing fortunes of the Athenan state. Pericles is said to have deprived it of a portion of its prerogatives, and later, its mainlers were made responsible to the people. Its fame was alive in the time of Cicero and as late as the emperor Theodosius (A. P. 1990). In the records of Christendom, the Hilb of Mars is memorable as the spot where the apostic Paul commenced the delivery of a discourse, the outline of which is preserved in the book of the Acts. There is no intimation that St. Paul was brought before the council of the Are-pages.

of the Aresquares.

AltEqUiPA, a province or intendency of South Peru, 48 miles long, and 36 broad. It has the province of Lima on the north, Bolivia on the cast, the province of Arica on the south, and the Pacific on the west. Its principal streams are the Aresquipa, the Tambo, and the Chih. It has a mealthy climate and a fertile soil, yielding wheat, marze, potatoes, sugar, cotton, that, coshineal, coffee, strawberries, and other products of the temperate zone. Consideral responsibles of the temperate zone. Consideral responsibles of which adjacent provinces. Populator, 25 poor. Anagema, capital of the above province constituted in the valley of Quilea, about 40 miles from the Pacific coast, and a little more than 7,800 feet above the sea-level, lat.

also Rio del Volcan, flows through it. The also Rio del Volcan, flows through it. The Andes lie to the east, and 14 miles to the N. E. towers the Volcan de Arequipa, one of the most celebrated volcanoes of the Andes, 20,300 feet in height, and constantly active. The city has a fine climate, and is well built, bearing the reputation of being one of the finest towns of South America. Its plaza or public square, has an elegant bronze fountain. There are in the city a cathedral, and several churches, a hospital, a college, 3 numeries, and 6 convents. The houses are usually of only one story, and with strong walls and vaulted roofs, on account of the earthquakes, which are very frequent hera. At 4 different times the city has been haid in ruins by them, in 15-2, 1600, 1604, and 1725. There are considerable manufactories of gold and silver cloths, and of cotton and woolen stuffs here. It has a considerable trade with Buenos Ayres, its exports being brandy, wins, flour, cotton, and sugar, and its imports, cattle, dried flesh, tallow, cocoa, &c. It is also the entrepot of American and European goods, which it receives through its port, Mollendo. The great commercial road from Lima to the southern provinces passes through the city. Popabout 36,000.—The Volcano of America, after Cotopaxi, the most celebrated of all the South American volcanoes, is situated in lat. 16° 24' S. and long, 71° 10' W. It has an altitude of 20,300 feet, and 500 feet of its summit lies within the region of perpetual snow. It is 14 miles distant from the city of Arequipalits crater is deep, and ashes and vapor constantly issue from it.

It is 14 imies distant from the city of Arequipa. Its crater is deep, and ashes and vapor constantly issue from it.

ARES, the Greek god of war, corresponding to the Mars of Roman mythology, hera, according to Homer and Hesiod, of Zens and Hera. He seems, in the former of these poets, to represent rather the wild fury of the fight, while Pallas Athena embodies the wary watchfulness of the skilful combatant. Diomedes, though a mortal warrior, wounds him, and drives him from the battle, and in the conflict of the gods, Pallas fells him with a stone. When wounded he roared as load as 9,000 or 10,000 men. When he fell he covered 7 areas of ground. Eris (Strife), his sister, here to him 2 sons, Deinos (Terror), and Phobos (Fest). Aphrolite bore to him Harmonia. The temples and images of Ares were not numerous. He is represented as a warrior, of a severe, menacing air, dressed in the heroic style, with a cuiras on, and a round Argive shield on his arm.

ARESON, JOHANN, a bishop and poet of Iceland, born in 1484, died in 1550. His trials commenced early in life, as his father's death compelled him, while a boy, to work for his mother's support. At 20 years of age he took orders, and in a mission to Norway showed so much talent that on the death of the bishop of Reikiavik, to which diocese he was attached, he was elected to fill his place. His election raised a storm of ridicule and opposition from disappointed competitors. He was accused of

set knowing Latin, at of risting to himself the diocesean property, and Ogmond, bishop
at the neighboring diocese of Skalholt, even
searted his own right to appoint the new
sishon, and marched at the head of a body of
smed men to maintain it. Areson absented
smealf for a while, but upon his return boldly
unted the calumnies of his enemies, and was
sinstated in his bishopric. His troubles, howwer, did not end here. The reformation broke
set, and Frederic III. of Denmark, who, with
samy of his subjects, had embraced Lutheransen, wished to extend it over Iceland also.
Areson, however, who had remained devotedy attached to the old faith, pertinaciously resited every attempt on the part of the king,
sad with the assistance of his 6 sons, by his
sistress Helga, constantly thwarted him.
Frederic finally lost all patience and summoned
Areson to Copenhagen, to which the latter replied by an armed invasion of the Protestant
liocese of Skalholt, the bishop of which he
took prisoner and treated with much harshness.
He was outlawed, and forces having been depatched to bring him to terms, he was defeated,
and with his 2 eldest sons, captured and executad. His devotion to the Catholic faith never
wavered, and he had even proposed to the emperor Charles V., and to Edward VI. of Engsind, to surrender Iceland to them, provided it
hould remain a Catholic province. His prosend to the latter shows a singular ignorance
of the change which had been effected in the national religion of England. Areson was a man
of much intelligence, and one of the truest
posts of his time, as his literary remains amply
testify. He is distinguished for having introlaced printing into Iceland.

ARETÆUS, a physician who flourished in
Cappadocia, a district of Asia Minor, in the

ARETAUS, a physician who flourished in Cappadocia, a district of Asia Minor, in the latter part of the 1st and at the beginning of the all century after Christ. His contemporaries rank him next to Hippocrates. He wrote 2 works in connection with the causes, symptoms, and treatment of soute and chronic diseases, which are still extant. The best edition is that he wilcon Cyfed 1798

which are still extant. The book which are still extant. The book wigan, Oxford, 1723.

ARETHUSA, a fountain in Sicily near the city of Syracuse. The ancients supposed its waters to be united with those of the river Alpheus in Peloponnesus. A cup, it was said, thrown into the waters of this river, would response in the Sicilian fountain. Arethusa, according to the ancient legend, as related by Pansanias, was a Nereld, with whom the hunter Alpheus became enamored; but the nymph, not responding to his ardent love, fled to the island of Ortygia near Syracuse, and there changed herself into a fountain. Nothing dannted, Alpheus metamorphosed himself into a river, and in this form made his way under the sea to Ortygia. According to another account, Arethusa, while bathing in the river Alpheus, was surprised by the river-god, and Diana, in order to enable the nymph to escape his pursuit, changed her into a fountain, which

passed under the sea to Sicily.—Another Arethusa was one of the Hesperides, the guardians of the golden apples, to obtain which was one of the 12 labors of Hercules.

ARETIN, ADAM, baron von, a Bavarian statesman, born at Ingolstadt, in 1769, died in 1822, was in 1817 the deputy of Bavaria at the Frankfort diet, and acquitted himself of his mission in a manner satisfactory to his government. He was a munificent patron of the fine arts, and possessed one of the largest collections of engravings and pictures in Munich, which, after his death, was sold by auction.—Christoph, baron von, brother of the preceding, born also at Ingolstadt, in 1773, died at Munich in 1834. He held various public offices, and at the time of his death, that of chief justice of a court of appeal. He was for some time deputy at the Bavarian diet, where he advocated with great vigor his ideas, which were rather too cosmopolitan for the narrow sphere of Bavarian politics. His last work was, Das Stauterecht der constitutionellen Monarchie. He left it unfinished, but after his death it was completed by Rotteck, and brought out at Leipsic in 1839.—Grora, baron von, brother of the preceding, born at Ingolstadt, in 1771, died at Munich in 1848, was connected with the court and the inspection of rivers and lands of Bavaria, from 1798 to 1809, when he was appointed governor of the district of Brixen. While exerting himself to quell the insurrection which had broken out in the Tyrol, he was taken prisoner by the Austrians and confined in a fortress in Hungary. He was set free in 1810, but on his return to Bavaria, retired from public life, devoting himself to agricultural and literary properity.

ary pursuits.

ARETINO, a celebrated Italian writer, whose real name was Leonardo Bruni, born in 1869, at Arezzo in Tuscany, whence he is commonly called Aretino. Taken by the French and imprisoned with his father in the castle of Quarata, he often gazed at a portrait of Petrarch which happened to be suspended there, and which kindled in him a love of letters. He studied hard at Florence and won distinction under her most famous men, giving 2 years entirely up to Greek under Emmanuel Chrysoloras. In 1405 he won by public trial the post of apostolic secretary to Rope Innocent VII. and held it under Gregory XII., Alexander V., and John XXIII. In 1410, the republic of Florence named him chancellor. This post he held but a few months, returning again to the service of Pope John XXIII., in spite of his having been married in 1412. When this pope was deposed by the council of Constance he returned to Florence (1415) and wrote, among other works, his history of Florence. The grateful republic gave him citizenship and a pension. He was again made chancellor and continued such until his death. He died suddenly at Florence, March 9, 1444. His funeral oration was solemnly pronounced in the church of Santa Oroce, and the orator Giannosso Ma-

66 ARETINO

netti by order of the republic crowned him with laurel. His history of Florence was placed upon his breast, and the sculptor Bernardino Ressellme, was charged to raise to him a marble temb which still exists.

ARETINO, Getto, often called Guy Aretin, or d'Arezzo, from his native town in Tuscany, was a Benedictine monk, born near the end of the 10th century. Endowed with inventive genius, he early occupied himself in devising new methods of writing and teaching music. The ancient principles of the art had been so much altered before his time, that it was necessary they should either be reestablished or replaced by others. This latter task Guido undertook. Instead of a group of tetrachords like the treek method, or of heptachords, such as Gregory adopted, he proposed a new system, consisting of hexachords. The six syllables by which he designated his notes, were suggested to him, it is said, by a Latin hymn to St. John:

UT quesnt laxis RE sonare fibris Mira gestorum - F. (muli t.orum SOLve pounts - L.4) a restum

To the seventh note, si, he gave no name, and for a long time it continued to be called b. Guido's new method of solmization attracted much attention at Hamburg, Osnaburg, and even in France. Such was its merit, that whereas ten years had been required to learn how to read music, now a chant could be mastered in a few days, and a year sufficed to make a skilful singer. Pope John XIX, for XXX, wishing to form his own judgment of this marvel, sent three messengers in 1022, inviting Guido to his court. The monk went, presented a collection of the offices for a year, marked according to his method, and the pope, we are told, tested the method, by learning a verso perfectly before rising from his chair. Guido not only facilitated the reading of music, but simplified the manner of writing it. Since St. Gregory, attempts had been made to improve musical notation. Already the seven letters, formerly written on one line, were placed on parallel lines to indicate the rising and falling of the voice. Guido, instead of repeating the letter, wrote it at the beginning of the line, and each time it occurred, marked a point on the line. He ended by placing the points within the lines, thus rendering the written composition more compact. Guido has the fame of being the inventor of the modern gamut. His method was in general use until the end of the last century. Guido wrote several pieces, the two most important of which are the Micrologus and the Argumentean Nora Cantus in Venerali, which explains his system of notation.

which explains his system of notation.

ARETINO, Pierrio, a celebrated Italian writer of the 16th century. He was born at Arezzo on the night of April 19, 1492, being the natural son of a gentleman of Arezzo named Luigh Bacci. He was brought up by his mother, a woman named Tita. While still very young, he was obliged to leave his native city on account of having written a sonnet against

indulgences, and went to Perugia, where, for a long time, he supported himself as a look binder. Thence he went on foot to Rome, in the hope of bettering his fortune, was received into the house of Agostino Chisi, a rich merchant, and house of Agostino Chisi, a rich increman, and obtained employment in the service of Popes Leo XX, and Clement VII.; but, having compsessed 16 somets for as many licentious designs of findio Romano, he was forced to retire to Arezzo (1524). Thence he shortly after passed to the court of Giovanni de' Medici, who was at that time in the service of Francis I. of France, and was a shortly after passed to the court of Giovanni de' Medici, who was at that who was also father of Cosmo, duke of Flor-ence. At length he returned to Rome, where ence. At length he returned to Rome, where he made love to the cook of Monsignor Governmi Mattei Giberti, president of the court of requests under Pope Clement VII., and composed a somet in her praise. A Bologness gentleman, Achillo della Volta, burned with the same culinary fires, and finding Arctino one day alone, rushed at him with jealous rays, stabloing him 5 times in the breast and maining his hands (1525). Disgusted at the refusal of the tastes to ramish this assessin Arctine Left. the pape to punish this assassin, Arctino left Rome, resolving never to return, and sought once more the court of Giovanni de Medzi. This protector, however, was soon lost to han having been struck by a musket-ball in a conbut toward the close of the year 1526. He expired soon after in the arms of Arctine, who now resolved to have no more protectors, but to live in the full enjoyment of liberty, sup-porting himself by his pen. With this view he removed to Venice (March 25, 1527), where he was well received by the doge Andrea Gritti, who, not liking to hear him speak ill of Pope Clement, strove to reconcile them, and at length, in 1500, Arctino acknowledging his at length, in 1550, Arctino acknowledging as fault, the pope wrote him a brere, and promised him his sister in marriage. The bishop of Vasone, major-domo to the pope, being this same year with the emperor Charles V., wished to have Arctino knighted by him; but the post refused, saying he did not wish for honors without incomes. In 1543, when Arctino came with the ambassadors of the republic of Vense to meet Charles V., while on his passage into Germany, the emperor not only wished to have him near, but caused him also to ride at his side, held a long conversation with him, made him a present in money, and recommended him strongly to the Venetian government. Once more Arctino went to Rome, in company with the duke of Urbino. He had previously re-ceived from Pope Julius III, the rank of Cavaliere di San Pietro, and hoped to be created cardinal, but came away with empty hands, sad and disgusted again. Puring 1557, Laving heard of some outrageous obscenities of which his infamous sisters had been guilty, he found them so comical that he threw himself back in his chair, laughing; the chair was thrown or backward by the shock, and he struck heavily upon his head. The blow was so serious as to cause his death. He was buried in Venice, in the church of San Luca, without any inscrip-

ARGALI 67

He showed both taste and skill in paintd sculpture. His vices were pride, glutand sensuality. He had no wife, but
mistresses, by whom he left several
instresses, and instresses and
index, was extraordinary. Many sonnets
written in his honor; he was called the
, and, from his satires, the scourge of
a. He was a member of various celesocieties; no less than four medals were
in his honor, which have come down to
me. On the other hand, he was many
stabbed and bastinadoed, and two dismiddlesses were struck in derision of him.
with a fervid genius, he held a distind place among the literati of his age, and
who, both in prose and poetry, were in
gheat degree applauded and sought after.

had little or no knowledge of Latin,
one of Greek, and boasted that he had
been to school, and never had a teacher.

sposed with great facility, and wrote in
warriety, works either sacred, proface,
al, or obscene, boasting that with a botlak and a bundle of paper he could make
mend scudi per annum.

ETIUS, BENEDIOT, a Swiss botanist and gian, born in Berne in 1505, died 22, 1574. He studied philosophy, and ling the chair of logic in the university recurs for a year, returned in 1549 to where he remained for the rest of his He embraced with zeal the doctrines of and wrote a number of theological a, marked by much controversial ability. is among the Bernese mountains, and his shed name in the annals of science.

10,000 inhabitants. It was one of the pal states of ancient Etruria. Its walls ideabtedly Etruscan, and were of importo the Romans as a barrier against the ime Gauls. The consul Flaminius, while against Hannibal, had his head-quaragree previous to the disastrous battle rasymene, and when Cæsar marched upiminum, he sent Antony with 5 cohorts, app Arretium. It was celebrated for its otta vases, ranked by Pliny with those ions and Saguntum. They are of red clay, tamped patterns, and an interesting colof them may be seen in the museum of meant city. During the contest of the mad Ghibellines, Arezzo fought against ce, but was finally obliged to yield. It the public buildings are the magnificent, by Vasari, the cathedral, the churches in Maria della Pieve, and Badia di Santa the Fraternite, the Museo Bacci, in is a large Etruscan coin weighing upof 2 pounds, and the Palazzo Publico, has upon its front a curious series of the al bearings of the successive podestas,

amounting to several hundreds. Arezzo has given birth to many distinguished men, such as Mæcenas, Petrarch, Vasari, Guido Aretino (the inventor of musical notation), Leonardo Bruni, Pietro Aretino, and Count Fossombroni.

ARFE, HENRIQUE DE, an artist born in Germany, who settled at the beginning of the 16th century at Leon, in Spain, and executed, soon after his arrival, a silver tabernacle for the cathedral of that town, which was chiselled so admirably that he received similar commissions for the cathedrals of Cordova and Toledo, and the Benedictine monastery of Sahagun. His most remarkable work, which took him 7 years, from 1517 to 1524, is his tabernacle for the cathedral of Toledo. Its form is hexagonal, the style Gothic, and it is adorned with 260 statuettes, beside many bas-reliefs, and other transports. This tabernacle which was cilded ornaments. This tabernacle, which was gided by Francisco Nerino in 1524, absorbed not less than 5,292 ounces of silver and gold, and is a superb monument of Henrique's genius.—An-TONIO DE, Henrique's son, acquired also tinction in the same art, but was not equal to his father. In 1544 he executed two taberna-cles, one for the cathedral of Santiago, another for the parish church of St. Maria de Medina de for the parish church of St. Maria de Medina de Rioseco. Antonio preferred the Grecian and Roman styles to the Gothic, which was the favorite style of his gifted father.—JUAN DE ARFE Y VILLAFANE, Antonio's son, born at Leon in 1535, died at Madrid in 1595. He studied anatomy at Salamanca, and passed some time at Valladolid, which in the middle of the 16th century was the Athens of Spanish artists. He made his debut with a tabernacle for the cathedral of Avila. on which he spent 7 years the made his debut with a tabernacle for the cathedral of Avila, on which he spent 7 years, from 1564 to 1571. He was remunerated at the rate of 12 ducats for every mark of silver employed. Subsequently he executed a tabernacle for the cathedrals of Seville, Burgos, Osmas, and for St. Martin's church at Madrid. His Avila tabernacle was one of the most beautiful tabernacles of Spain. His Seville tabernacle is the most imposing, but the one in the cathedral of Osmas, the smallest in size, and in which he had the assistance of his son-in-law, Lesmes Fernandez del Moral, was the most finished in design and execution. He also produced some good engravings on lead. He was a man of remarkable versatility of talent.

ARGÆUS, Mount, is the loftiest mountain of Asia Minor, height 18,000 feet, circumference

ARGÆUS, Mount, is the loftiest mountain of Asia Minor, height 18,000 feet, circumference of base, 60 miles; area, 300 square miles. It is isolated except on the south-east slope, where it is connected to a branch of the Taurus chain. The lowest line of snow is 11,700 feet.

ARGALI (ovis ammon), the mountain sheep, the big-horn of the west of the Rocky mountains the offerthe of the Indians. It is nearly of

ARGALI (ovis ammon), the mountain sheep, the big-horn of the west of the Rocky mountains, the ahrehta of the Indians. It is nearly of the size of a deer, which it resembles in its coat of short, harsh hair, of a grayish yellow color, with a reddish or blackish stripe along the back, and a large spot on the rump of the same color. In winter its color is of a deeper and redder hue, with the throat and belly white. It has very

After the

large laterally twisted horns, like those of the common ram, rising from near the eyes with a curvature backward, then forward, and with a forward and outward divergence of the tips of the horns. They are transversely waved or wrighted, for something more than half of their length, but are quite smooth and polished toward the points. The horns of the female are much smaller than those of the male, and more re-servible those of the g-sat. The mountain sheep are tound in great numbers on the elevated mountain ranges of northern Asia, on the steppe of Scheria, the highlands of California, and the Bocky mountain range of America. They live in herds on the highest summits, feeding on lichers, mosses, and small shrubs, They are extremely shy, watchful, and timid, Their swiftness of feet is amazing, and their againty in bounding from rock to rock is unsurpassed by that of any quadruped. They can only be stalked with the greatest care, upwind, or st. o from ambush. During the rutting season, under the influence of sexual excitement, the mass become extremely purmicious, and there is only take place for the possession of the females. The flesh of the young mountain sheep is said to be tonder and descate, but that of the old males is apt to be very rank and insurrecable. The hide, from its soft and disarrogation specification, in a more in the soft and specify character, is of little value for leather, though it is used by the Indians in common with description, to which however, it is very interfer in quality. The arguli is said to be the origin of the common domestic sheep, to which, however, it bears but a slight resemblance. It stated, however, that the domestic sheep, which transported to warm climates, loses its perchar weed, and assumes a course cont of strang the residish hair, when it comes greatly to rescuible the anguli. This animal was first districtioned as an inhabitant of the United States by the exporting expedition of Lewis and Clark, although it had been previously resortated as a native of California by Veregas, recognized as a native of California by Veregas. The test description of this animal with the districtions is tween it and what is called the two-by "sheep, which is really a goat, with short lack horns and a beard, is to be found in Irving's "Adventures of Captam Bonneville," and there are also full accounts of both minuals, with a characteristic engraving of them, in with a Caracteristic engraving of them, in Frack Froster's "Field Sports"

ABOALL Sawran, born of Bristol, England, in 1972 and shell in 1972. He was one of the early odynamics to Virginia, and deputy-govearly with elithers to virginia, and deputy-governor of that of my for two years. He makes his tirst appearance in the colonidate distribution from 1995, as an eliterprising trade, making severally spaces in the exercise of his calling. His first public exploit was the abduction of Poscahoritiss in 1912, where he invegged from the care of a chief, who had been intrusted by Powhatan with the charge of his daughter. The temptation to the perfidices chark was a brack kerne. Taking her to Jamestown he gave her to the governor, Lord Delaware. This was

under the third charter of James I. departure of Lord Delaware and the deputy-gov-ernorships of Sir Thomas Dale, George Percy. and Gates, Argall became deputy-governor, post he occupied for 2 years from 1617. I was one of the greatest tyrants who ever ru in America, bringing the despotism of the quar-ter-deck into the forests of Virginia, and so outraged every law that even in his own comcil he found bitter opponents, who procured his recall. He was succeeded in 1619 by George Yeardley, and returned to England som after with immense wealth. He was a rade sailor, utterly uncultivated, and of great rapacity, with no higher motive than intense avarice. At the same time, he was a reckless soldier, having during the governorship of Dale, commanded an expedition which sailed to Port Royal, in Nova Scotia, which place he reduced and plandered, driving the French colonists into the words. It has been extend on the authors of It has been stated on the authority of English printed works, that on his return to Virginia he appeared before New York, then New Amsterdam, and summoned the Hollanders to surrender, on the ground that Henry Hudson, the discoverer, was an Englishman, and that the sovereignty accrued to his sovereign. This account, however, has been carefully sifted by Brodhead in his "History of New York," who arrives at the conclusion that the whole story is fabulous. Argall, even in that day, we considered a pirate, and was certainly detested by the colonists, against whom he enforced the rigors of martial law with extreme severity. After the death of Lord Delaware. Argall took charge of his estate, and letters of his countess now in existence accuse him the most flagrant and barefaced peculation.

ARGAND LAMP, a lamp invented by Ainse Argand, of France, in 1789. The principle of it consists in the use of two metallic cylinders. one within the other, between which is the earcular wick connecting with the oil below. The inner cylinder is open at top and bottom, and through this, when the chimney is placed up-a the lump, a current of air is drawn up, what feeds the inner surface of the ring of flame, while the external surface is fed by air pass ing up outside of the outer cylinder. The oil is thus thoroughly consumed, and gives its maximum of light. The contraction of the chimney just above the burner is an ingenious contrivance for turning the current of air and con-centrating it upon the flame. This form of lamp is applied to the uses of the chemist with great advantage for heating crucibles, &c.; and it may be made much more powerful by blow-ing into the inner cylinder a current of air or

ARGELANDER, FRIEDRICH WILHELM GUST, a German astronomer, born March 21, 1799, at Memel, Prussia, educated at Konigsberg, a pupil in astronomy of Bessel, and has assistant in the observatory. In 1923 he took charge of an observatory at Also, where he remained till the observatory was burned in 18

m superintended the building of the new Helsingfors. In 1887 he was appointed present post of professor of astronomy sector of the observatory in Bonn. His have been particularly directed to the tars, and the investigations of their moschiding the movement of our sun among

HILES, an arrondissement in the depart-

Hautes Pyrénées, France; area, 528 miles; pop. in 1852, 42,558. It is dimto 5 cantons, and subdivided into 99 mes.

ENS, Jean-Baptiste de Boyer, mara French writer, born at Aix, in 1704, 1771, at Toulon. He was intended by sily for the profession of law, but he ed the army. After one or two years of he made an escapade to Spain, in comtha a charming actress, with a view of agher, but was overtaken by his relation, in order to make him forget his bestylvia," as he calls her in his "Medispatched him to Constantinople as ry of legation to the French embassy. Testurn from Turkey he again joined the but during the siege of Kiel, a fall from se disabled him for military service. As ther had disinherited him, he took to re to support himself, and availing himbe his Lettres Juices, Lettres Chinoises, stree Cabalistique, which attracted the sa of Frederic William I. of Prussia, who him to come to Berlin, but D'Argens not go, because, as he wrote in apology prince, he was afraid that his tall figure tempt the old king to enrol him in his However, after the accession of Frederic he throne, the marquis went to Potsdam, as appointed director of the fine arts of demy of Berlin, and was on the best of with the king, until he married an actress t asking the royal consent. His most ant work is his Histoire de Vesprit hu-

PENSOLA. I. BARTOLEMÉ LEONARDO panish historian and poet, born at Barin Aragon, in 1566, died at Saragossa 1631. He entered the church, was made n to Donna Maria of Austria, and, after to Naples, a canon of Saragossa. His are a continuation of Zurita's "Annals of 1," "A History of the Conquest of the 23," and some poems. II. LUPEROIO LEDE, brother of the preceding, born in 1565, is Naples, in 1618. At the age of 25 he 1 Madrid, and was made secretary to the 1 Maria of Austria. Philip III. appoints historiographer of Aragon. When the Melemos received the viceroyalty of Namade Argensola his secretary. He 1 tragedies and some poems. The brothem the purity of their style in poetical stion, have been called the Horaces of

ARGENSON, Revé Louis Voyer, marquis d', born 1696, died 1757, a scion of one of the great historical families of France, originating in Touraine, where, from time immemorial, they had been owners of the estate of Paulmy, as well as of that from which they took the name of Argenson. In 1741 Louis XV. appointed René minister of foreign affairs, and he held this office until 1747, when the intrigues of Spain, whose policy he had frustrated in his negotiations with Italy, brought about his resignation. From that time to his death he devoted himself exclusively to science, and became the intimate friend of Voltaire, who declared his Considérations sur le gouvernement de la France to be worthy the pen of Plato.—Mako Pierre, comte d', brother of the preceding, born in 1696, died in 1764, was for some time secretary of the war department under Louis XV., but his principal claim to the gratitude of posterity rests on the services which he rendered to science. D'Alembert and Diderot began their Encyclopædia under his apprices and he furnished Voltaire with the which he rendered to science. D'Alembert and Diderot began their Encyclopædia under his auspices, and he furnished Voltaire with the materials to his Siécle de Louis XIV.—MARO ANTONE RENÉ, nephew of the preceding, born in 1729, died in 1787, was governor of the arsenal, and distinguished himself by the splendid collection of 150,000 volumes with which he endowed the library of that institution. He edited 40 volumes of La bibliothèque universelle des romans, including some of his own romances. He was ambassador in Switzerland, Poland, and Venice, but, on being disappointed in his hopes of obtaining the Roman mission, he resigned his public offices and devoted himself to literary pursuits. He was a mission, he resigned his public offices and devoted himself to literary pursuits. He was a member of the French academy.—MARC REMÉ VOYER, a member of the same family, born at Paris in 1771, died there in 1842, served for a considerable time as adjutant of Gen. Lafayette. In 1809 he became prefect of Deux-Néthes, but relinquished his place on finding that his determination to protect the constitution Nethes, but reiniquished his place on inding that his determination to protect the constitution against the despotism of Napoleon was not supported by the ministry. He took an active part in the expulsion of the English from Walcheren, as he happened to find himself at Antwerp when they landed. During the Hundred Days he was a member of the house of representatives, and in conjunction with Lafayette and Benjamin Constant, he belonged to the denand Benjamin Constant, he belonged to the deputation of Haguenau, who besought the alutation of Haguenau, who besought the allied forces to prevent the return of the Bourbons. In 1815, as member for Belfort, he distinguished himself by his eloquent denunciation of the massacre of the Protestants in the north of France. In 1880 he reentered the chamber of deputies as member for Strasbourg, and on of deputies as member for Strasbourg, and on that occasion created a great sensation by tak-ing his parliamentary oath with the words Je le jure, sauf les progrès de la raison publique. In May, 1882, he was one of the opposition members who signed the famous Compterendu, and in Oct. 1888, he signed the manifesto pub-lished by the society of Des droits de l'homme.

He was see of the chief leaders of the secret se-ructy of hardennesse democratique, and was de-signated as the future dictator of France, in case

of a various in Alto Enlarge town of a district in the object town of a district in the object matter of Orne, France. It is agree-ably estimated on a bill in the midst of a fertile any situated on a half in the model of a fertile plant. Its principal oner hooffers a fine specimen for the arabeture. It contains a college, maintifactures of linen and lace, called post flaggestry tanteries declared called post flaggestry tanteries declared, cheese, and broken flaggestry tanteries for cattle, cheese, and broken flaggestry flaggestry. Another tasks in Service and Marcelonia, in European Turkey.

Another tasks a town of France, 13 miles N. W. of Pance on the Sone, known for its brick wite and some remains of an ancient annersy where Helose retired after the mis-

EURLOY where Heleose retired after the mis-fortune of Alwiard, is fore she became abbess of the Paraclet — Pop. 4, 177. ARGENTEUS CODEX, an old uncial MS.

ARGENTEUS CODEX, an old uncial MS, of the 4 g spels, written or stamped in silver letters (except the initials, which are in gold) or volctor-dored vellum, in the Messe-Gothic dialect. It is suppose I to have been executed about the 6th century, and is a copy of the version made in the 4th century by Ulphilas, the Arian Irshop of the Messo-Gotha. This codex was discovered in the library of the Science abbey of Werden, Westphalia (1597), and after changing hands, either honestly or by and after changing hands, either honestly or by stealth, several times, came at length into the sideration of £250. Fac-simile editions of some portions of it have been published by Knittel, and also by Maio (1819). Maio has also discov-ered some pulmiposess of this version in the Ambresian library, which have been published. These more recent discoveries have aided to fill the chasms in the Argenteus Codex, and so to enhance its value to lablical literature. ARGENTIERA, ARGENTARIA, or KHIMOLI (AL. Cimeles, or e of the islands of the Greeian

(and it insection) or e of the islands of the Greeian Artificians. It was celebrated among the amounts for its earth or chalk (ψ κιμολια γτη, used in modeline, and by fullers. Silver mires were trinerly worked here, which gave the name to the island. It is about 18 miles in circuit, and is in lat. 56, 49°3. N. long. 24°3. The Partition of the island.

ARGENTINE CONFEDERATION, THE (Confeder town Argenting) The states forming the confederation bearing this name have not best the same at all periods of its history. From the first, as now, however, it has been composed of a number of states lying upon the sources of the Boode la Plata, or Silver River, is freezer the race de A Plata, of Silver River, of South America, and from that fact is taken its name of the Argentine or Silver Confederation. The country, including the state of Bion = Ayres, which has been until recently an injuriant member of the confederation, and recently that have been such as perfectly as in partial transfer of South America which has been such as a few forces. has between the river Paraguay on the cast

and the Andes on the west. It is bounded on the north by Bolivia; is separated on the cost by the Paraguay from Brazil, ruguay sometimes called the Banda Oriental); Uruguay cometimes called the Banda Oriental); is washed on the south-east by the Atlanta ocean; divided on the south-east by the Atlanta gonia by the Rio Negro, and on the west from Patagonia by the Rio Negro, and on the west from Chili by the Andes. It lies between the 20th and 40th parallels of south latitude and 56 and 70 degrees west longitude, covering an area of about 780,000 square miles. The mouth of the Rio de la Plata, through which the waters of the greater part of this territory empty into the sea, was discovered by Juan Duaz de Solis in 1512. The settlement at Buenos Ayres (fine air) was begun by Dua Jurge de Mendoza as early as 1535, and parties under his orders proceeded to the exploration of the country, reaching as far as Assuncion on the Paraguay river, in about lat. 26° S., now the capital of the republic of Paraguay. Many actilements were under in this century and settlements were made in this century, and some progress made in the civilization of the Indians, under Don Juan de Garay, who was made lieut,-governor about 1580, these province hand reduce system a work to so, they provide of Peru. In 1620, under Philip III, of Spain, a new government was formed, including the provinces on both sides of the Paraguay, and called that of Rio de la Plata. In 1776, must of the same territory was erected into a vice-royalty, with Buenos Ayres as its capital. Is 1806 the country was invaded by a Britab army, and Buenes Ayres was captured, but a was held only a few months. At the time of the French invasion of Spain, the country was At the time of much convulsed, but for a time admitted its dependence upon the mother country. 1810, however, the colonists deposed the vi roy, and established a provisional government of 9 persons, in the name of Ferdinand VII. Cordova, Paraguay, and Uruguay, refused the authority of the new government, and a long series of civil conflicts ensued. The return of Ferdinand VII, to power did not bring a cobnial policy which was satisfactory, and in 1916 a congress was held at Tucuman (July 9) in which the independence of the provinces wa declared. Although there was an attempt to make the Argentine confederation the successor of the whole vicerovalty of Buenos Ayres, it was impossible to combine the various interests into one republic, and serious struggles en in the attempt to produce this result. The wa of a homogeneous character in the people, and the conflicting ambitions of various leaders, re-sulted in the formation of two republics, Parasurred in the formation of two republics, Para-guay, on the upper waters of the Rio de la Plata, and Uruguay, now the "Oriental Republic" (at one period of its history called Monte Video from the name of its chief city, and always spoken of, from its position, as the "Randa Oriental"), at the mouth of that river, beside the Argentine confederation proper. The prov-tince of Uruguay was for a long time the con-tinual theatrn of ween historia. ince of Uruguay was for a long time the conBrazil and the Argentine confederation, while chiefs of its own were attempting to secure its independence. In 1825, however, the Argentine confederation was established as a federal mion of 18 independent states, it being agreed that the captain-general of the province of Baenos Ayres should be charged with the foreign relations of the whole confederacy, and act as its supreme executive. These 18 states, whose general position upon the map we have al-ready indicated, are occupied by a scattered and mixed population, estimated in 1855 at about The most important was Buenos 1,900,000. The most important was Buenos Ayres. Next in population and influence were Tucuman, Sants Fé, and Cordova. The rest were Entre Rios and Corrientes, Catamarca, Rioja, San Juan, Mendoza, and San Luia, Salta, and Santiago. In most of these provinces there was then, and indeed there is still, but one large town, the centre of a pastoral, an agricultural, or a mining population, scattered over a large extent of country. Buenos Ayres has but one town (the city of that name); all the rest of its domain, an area of 75,000 square miles, being divided into estancias for the rais-200,000. the rest of its domain, an area of 75,000 square miles, being divided into estancias for the raising of cattle. Santa Fé was the only town in the province of that name; Bajada the only town in Kntre Rios. The sizes of the different states was and is extremely various. The grazing states are very large; those which have something of an agricultural character are somewhat less, while those, like Catamarca, devoted almost wholly to mining, are comparatively small. The character of the population was equally varied. There was almost a feudal aristocracy in the north; in the wide ranges of aristocracy in the north; in the wide ranges of the pastures the herdsman felt and exercised a rude power; and there was a greater degree of moderation in the agricultural states. There was very little element or bond of union.—Bu-enos Ayres as the only seaboard state, and as much the richest, naturally took the lead, both in preparing the way for independence and in forming the confederacy. The higher class of her inhabitants possessed immense wealth, both in lands and other property. Many of them had been educated in Europe, and had introduced into South America the refinements of a high civilization, and hoped to extend those refinements over their whole country by means of a form of government. But under their ideas this government was to be wielded by the rich and educated classes. Their party, which called itself the Unitarios, succeeded in framing the constitution of 1825, under which the nation was represented by a small aristocracy. Rivadavia, as captain-general of the province of Buenos Ayres, was the first and only president of the confederation under this constitution. The greater part of this large province took its political bias from the independent and republican tone of the cattle drivers and berdsmen who knew their power, and were pendent and republican tone of the cattle universand herdsmen who knew their power, and were not averse to asserting it. They soon found a leader in Juan Manuel de Rosas, one of the guaches, or cattle drivers of the interior, who

had some reputation and some army-rank in the revolutionary combats, and began about this time, at the age of 32 years, to take part in political affairs. He made his residence the centre and himself the leader of all the operain political affairs. He made his residence the centre and himself the leader of all the operations against the Patagonian savages, and thus secured the confidence of the peasantry, and was subsequently able to control the cooperation of the savage tribes. He had opposed the Unitarios at the time of the union, although unsuccessfully; but, by 1827, he had acquired sufficient influence, and found himself certain of the aid of other popular chieftains, such as Bustos, governor of Cordova, Ibarra, commandant of Santiago, and Quiroga of Rioja. They protested against the constitution and government of 1825, took up arms in force in support of their protest, and compelled Ridavavia to resign his post without a battle.—In July, 1827, they chose Dorrego governor of Buenos Ayres. But the established army of the republic soon after got up a counter-revolution under one Lavalle, an officer of some distinction. He defeated Dorrego and Rosas, and shot the former without a trial. Rosas and Quiroga, with Lopez of Santa Fé, formed a new league, and Lavalle was obliged to yield to their superior force. He resigned his post and Rosas was chosen in his place. We have given this much space to these events because they resulted in placing at the head of the confederation the man who remained there because they resulted in placing at the head of the confederation the man who remained there for many years. He was reelected governor of Buenos Ayres, a position which placed him at the head of the foreign relations of the confederation, and gave him a very general control of its internal affairs, as often as his term expired, until 1835, when he refused to be again a candidate. Five times the honor was tendered to him and as often refused. He was then offered and accepted, the dictatorship for 5 years, and the appointment was twice renewed. He held the office until 1852, and was the sole and un-controlled ruler of Buenos Ayres and practically of the Argentine confederation during the whole of that time. From 1827 to 1852 there was no meeting of the national congress or constituent assembly. It is difficult to say with what degree of moderation he exercised these unlimited powers. He has been represented as an arbitrary and bloody tyrant, and accused of the treacherous murder of all the friends who placed him in power. He certainly ruled with a strong hand, and was neither slow nor scrupu-lous in his means of defending or of advancing himself. But he maintained a government un-der which his country increased in population and material prosperity, notwithstanding con-tinual internal dissensions and foreign wars, and retained a strong and generally triumphant party of friends until the last.—Upon the idea that all the provinces of the former viceroyalty of Buenos Ayres belonged to the Argentine confederation, a contest was long kept up to attempt to bring into it the states of Paraguay and Uraguay. The former, protected in part

by its natural position, and more by the policy of isolation and the strong executive power of its singular dictator, Francia, almost entirely escaped foreign conflict. But, as we have al-ready mentioned, the latter was constantly by Brazil. Its independence (under the name of the republic of Montevideo) was at last acknowledged by a treaty mediated by Great Britain in 1828. But this did not check the ambition of Rosas to include the other seaport of the Rio de la Plata in his dominions, or bring peace to the Banda Oriental. By the treaty, the Argentine confederation agreed to protect and sustain the government of Montevideo, and this was made excuse for frequent interference in the formation of that government, even by force of arms. Oribe, the governor of Montevideo at the time of the treaty, was a partisan, if not a creature and tool, of Rossa. To him there was a strong faction opposed, led by Fructuoso Rivera, a man of great popularity with the country population, who had raised himself to influence much in the manner employed by Rosas himself in Bueos Ayres. The matter came to a war, first of blockades and then of armies, between Oribe supported by the Argentine confederation on the one hand, and Rivers sustained by the Argentine exiles in Montevideo, and also by a French fleet, n the other. The intervention of the French was induced by a quarrel which had arisen between a French vice-consul and the dictator. After much mixed fighting, in which no party ob-tained a decided advantage, the French difficulty was settled by the appointment of a new nl, and in 1840 a new treaty of peace, of consul, and in 1840 a new treaty of peace, of much the same tenor as that of 1828, was made between the confederation and Montevideo. This peace was not of long duration, and in 1845, Oribe being the regularly elected president of the republic of Montevideo, and the Rivera faction in the armed occupation of its principal city, Rosas was "assisting and protecting" the former with an armed force. This was the oversion of an "armed intervention" by the occasion of an "armed intervention" by Great Britain and France, on the plea of enforcing the treaties of 1828 and '40, and restoring peace to the Rio de la Plata. Mr. Ouseley on the part of the former and Mr. Deffandis for the latter, conducted the negotiations with Don Felipe de Arana, the minister of foreign affairs of Rossa, but without result, and hostilities were com-menced by the allied fleets in August. They blockaded Buenos Ayres, and took possession of the peninsula of Martin Garcia, above it, but met with some severe reverses on land. The maxt year their fleets were withdrawn, the sup-port of the Oriental republic being left in the ids of Brazil, which had taken sides with th Rivers faction against the Argentine confed-This war occupied Rosas for many years, while the opposition party in his own state was gradually becoming too powerful for him. This party was, as had become two common in these states, now armed and acting in conjunction with the natural enemy, and at the i مأنثه

of Monte Caseros, Feb. 8, 1852, Ro feated by the united forces of Brazil, the Orisital republic, Paraguay, and Urquiza the least of his own opposition. Rosas escaped to Enland. By a convention of the representative of the different states and powers held at St. Nicholas, May 31, 1853, the chief power was given to Vincente Lopez as provisional governor of the province of Buenos Ayres. But on the 23d of the next month, by a sudden comp d' état, having the army at his disposal, Urqu put himself at the head of the government as dictator, not 5 months after the deposition of the last. The first use of his power acknowledge the independence of l of Parag which was done by treaty June 28, 1852. independence has since been acknowledged by the United States of North America, France, England, Sardinia, and other states, not again been interfered with. He also ared, by treaties, the future free navigation of all the rivers flowing into the La Plata, a wise measure which took effect in the next October, and remains in force to the present day. It this new assumption of dictatorial power a duced immediate irritation. It was but a se gauches, compelling the proud and refined Bus-nos Ayreans to tremble before his rude lenera, and his continuation in power depended upon his constant presence at the seat of government and head-quarters of the army. In Septembe he was obliged to leave Buenos Ayres to atte the meeting of the congress at Santa Fé. He ha hardly left that city when (Sept. 11, 1852) a re-olution showed itself, and Valentine Alsina w o Alsina w To e chosen governor of Buenos Ayres. the sort of patriotism which mingled with the changes, it may be recorded that the new go enument immediately voted that \$5,000,01 should be paid toward the expenses of the who had created the insurrection. Of this, generals received \$227,000 and 2 majors, \$120,000. But it must be recollected that from the Of this, 9 depreciation of the currency, these sums a quite nominal. The province, with this greenment, determined to maintain itself as a set independent of the confederation, and another revolution, which changed the governor trarily, in the month of December, did no revolution, which changed the governor temperarily, in the month of December, did not after this purpose. The congress of the confederation did not assemble until November 20, all the states being then represented except Business Ayres, and Urquiza was instructed to suppress the rebellion in that state. It met again Jan. 26. 1858, and went on with the work of for a constitution. It also recommended the p dent to take all means to stop the civil we ring Buenos Ayres back to the conf For this purpose an armistice was agreed and a project for a treaty of peace signed of in March, but this fell through from constitutional scruples of Urquiza, founded on the vention of San Nicholas, and the war was newed and Buenos Ayres blockaded.—The s constitution of the confederation, and that wh

is of the core (1857), was promulgated May 1, 1853. It was framed in the hope and apparent expectation that Buenos Ayres, the richest and most important, as the only maritime state of the confederacy, might be induced to return to it and fixed that city as the capital. The constitution, in its general features, resembles that of the United States of North America, as being a federal government of independent states. It guarantees the free navigation of the rivers, and provides that there shall be no duties on goods carried from province to province; grants to for-eigners all civil rights; provides for their natu-ralization after 10 years' residence—which term be abridged in the discretion of congress and makes other provisions for the encouragement of immigration. It went into effect at the end of the year. Urquiza was chosen president for 6 years from March 5, 1854. The seat of gov-ernment was established at Bajada del Parana, in the province of Entre Rios. Meantime, in Buenos Ayres, a new constitution had also been formed in January of the same year, but not without a hope expressed, and provision made, for a future return to the confederation. This, for a future return to the confederation. This, at one time not long after, seemed probable. That province was invaded by a party of fillibusters under one Costa, and Urquiza was suspected, or at least accused, of having fostered this movement. This he promptly denied, and sent his forces to help to repel them. This friendly act failed to bring about an entire reconciliation, but 2 treaties of peace and good will between the parties were the result, signed at Buenos Ayres Dec. 20, 1854, and Parana Jan. 8, 1855. They provide for independent governments, but contain stipulations for much mutual assistance. Each guarantees the other Each guarantees the other mutual assistance. against the dismemberment of its territory; they agree to unite in case of foreign peril; former general laws are to remain in force in civil cases, and criminal cases not of a political nature; they are to give each other mutual aid against Indians; no renewal of passport to be required in crossing the frontiers; the vessels required in crossing the frontiers; the vessels of war of both nations are to carry the national banner; neither shall levy duties on the productions of the other. Urquiza continues (1857) president of the Argentine confederation, and Pastor Obligado has just been reëlected governor of Buenos Ayres, for a term of 5 years. But the constitutions of both having been prepared with a view of required much effort has been made. with a view of reunion, much effort has been made But while all steps toward it for that purpose. have thus far failed, and while the interests of the country more and more demand it, the pas-sions of public men in both states make it more sons of public men in both states make it more and more difficult. Upon the unanimous request of the congress of the confederation, negotiations were reopened on the subject Oct. 10, 1855, and M. Juan Bautista Pena was sent to Parana for the purpose. But it afterward transpired that his authority only extended to making some modification of the existing treaties, and not to merging the 2 sovereignties. This fact becoming public produced much irri This fact becoming public, produced much irri

tation in the confederation, at the same time that another event produced an equally angry feeling at Buenos Ayres. On Dec. 24, 1865, some Argentine refugees from Montevideo, under the lead of Gen. Floras, embarked at Santa Fé, in the territory of the confederation (indeed, just opposite the cenital) to invede the prove just opposite the capital), to invade the prov-ince of Buenos Ayres. Gen. Mitre easily beat them back, and in his turn invaded the province of Santa Fé, in which step he was sustained by his government. Upon this, not only was the mission of Pena closed, but the Argentine government signified to him (March 18, 1856), that the treaties of Dec. 20, 1854, and Jan. 8, 1855. 1855, were annulled. In his message of the ensuing May, Urquiza said to his congress, that peace with Buenos Ayres rested, for the future, "only on the guarantee of the conscience and honor of the national Argentine government." The result has been a war of finance and commerce, injurious not only to the states thembut to the foreign nations who were beginning to deal largely with them. On July 19, 1856, the congress at Parana, on the suggestion of government, passed a law establishing differential duties upon all goods brought in by way of Buenos Ayres, which went into effect Feb. 1, 1857. Foreign merchandise coming directly to ports of the confederation will consider the confederation will be confederated the confederation w tinue to pay the ordinary duties; but if they have touched at Buenos Ayres they will pay double that duty, unless subject to a specific duty, and if they are so, to an additional duty of 80 per cent. upon their value. In this contest Buenos Ayres has the advantage of the habits of trade, of the natural methods of navigation, and of its own business importance. The confederation, on the other hand, represents the larger part of the country, and is considered as the national government by most foreign nations. The principal powers have, however, now, diplomatic agents accredited to both gov-The government of the confederaernments. tion has strengthened itself by treaties of amity and commercial reciprocity with Brazil, England, and the United States of North America, and one with Chili, intended to develop a commerce across the Andes, by free trade across that frontier; and the independence of Para-guay and the Oriental republic has been again recognized and guaranteed. The government is seeking to encourage immigration, and foster large enterprises. Attempts at colonization are making at Corrientes and Sante Fé, roads have making at Corrientes and Sante Fe, roads have been built, and the reconnaissance has been made for a railroad from Rosario to Cordova. The Paraguay has been explored by Capt. Page, of the United States navy, in the steamer Wa-ter Witch as far as Mato Grosso, in Brazil; the Salado, by the same officer in the Yerva, for 120 leagues above Santa Fé, and the Vermejo was navigated for the first time, almost from its mountain source to Corrientes, by Mr. Hickmountain source to Corrientes, by Mr. Hick-man, another American, in 1855. There is also much activity in the province of Buenos Ayres Immigration is increasing, and great efforts are

making to encourage it by grants of land and the formation of new villages. A railroad is planned from the city toward San José de Flores, to the westward. A company has been formed within a year to light the city with gas. For the year 1854, 781 ships, measuring 175,356 tons, were entered inward, and about the same number cleared. The exportations for that year, of the products of the country, were valued at \$14,571,256.—We have already mentioned the general position of the states which have formed, or now form, the Argentine confederation, and have given their names as they group themselves upon the map of the country. We now give a list of them in alphabetical or-We now give a list of them in appnanetical order, with an approximate statement of the population of each, in 1855. Buenos Ayres, 400,000; Catamarca, 45,000; Cordova, 90,000; Corrientea, 45,000; Entre Rioa, 50,000; Mendosa, 40,000; Rioja, 20,000; Salta, 55,000; San Juan de la Frontera, 25,000; San Luia, 25,000; Santa Fé, 20,000; Santiago del Estero, 48,000; Tucuman, 60,000. These estimates probably include, in some instances, the nomadic Indians, who although not hostile, are hardly to be conwho, although not hostile, are hardly to be con sidered citizens of the several states, and in some instances do not include them.—These states, covering an area larger than that of Great Britain, France, and Spain, united, embracing every va-riety of soil and temperature, traversed by rivers navigable from the spurs of the Andes to the shores of the Atlantic, are thus, it will be seen, occupied by a little more than 1,000,000 be seen, occupied by a little more than 1,000,000 of people. The productions and occupations of the country are, however, varied, because of the variety of situation and capacity. Cattle form the most valuable property, and immense numbers of them are kept upon the large breeding estates, or range amid the luxuriant pasturage of the plains. Hides, skins, hair, horns, bones, sait meat, and tallow, therefore, furnish a large part of the exports. The number of heads of cattle has been estimated at 4.000,000 and of cattle has been estimated at 4,000,000, and of horses, mules, &c., 2,000,000. Cotton, tobacco, rice, cocoa, sugar, and other productions of tropical countries are raised, with wheat and other grains. The fruits grown are chiefly those of southern Europe, such as the orange, fig. olive, peach, apricot, apple, pear, and grape.
Gold and silver are found in the Andes and in
the Sierra de Cordova, a series or system of hills in the middle of the southern part of the country; iron and lead exist in small quantities. said to be plentiful in the south-we with sulphur, alum, and mineral pitch, near the Andes; but of none of these, are important mines worked. The mountains occupy the Andes; but of mines worked. occupy the western and northern portion of the territory; and the fertile valleys of the rivers which fi from them to unite in the broad estuary of the La Plata, separate most of the remainder of the country into extensive ranges, which are either covered with rich vegetation or made desert, by the efflorescence of salt. The south-western part of the country, which is not connected by rivers with the La Plata, has been very little explored.

ARGENTRÉ D', a noble family in Brittes distinguished in Breton annals as early as 10 Its most celebrated scion was Bertrand, be at Vitré in 1519, died 1590. He been the champion of the feudal rights of the Breton seigneurs against the attempt of D moulin to modify the common law of Brittes. moulin to modify the spirit of equality, we be introducing the spirit of equality, we have then through the civil law. D'Arge breathes through the civil law. D'Argente was nominated commissioner for the reform of the "custom of Brittany," and instead of se laxing it, voted always to make it s Brittany in this matter resisted the Brittany in this matter resisted the France movement of law reform, just as earlier at had remained Celtic when the rest of France had become Roman, and as later she remaine monarchical and orthodox, when the rest of France had become republican and atheistics ARGIVES, the inhabitants of Argolis of Argos, a Greek province. During the Trejowar the Argives were the most pression among the Greek tribes. Agamemnon, theif of the expedition, the most powers.

of the expedition, the most pow richest among the Greeks, w For this reason Homer often w and the richest Argive. Argive. For this reason nomes of the name of Argives as a generic appellation for all the Greeks, and many other classical writers follow his example.

ARGONAUTS, the name of the earliest beress

of Greek antiquity, who according to the legend, at least half a century previous to the Trujan war, executed the first daring navigation on unknown and dangerous sees. The name comes from the ship Argo, expressly constructed for this purpose, of oak from the Dedonian groves, which had the power of prephecy. Pindar was the first to celebrate the phecy. Pindar was the first to cetebrase deeds of the Argonanta, but other poet Apollodorus, Apollonius of Rhodes, a per Orpheus, Onomacritus, and the Rusman, lerius Flaccus, treated the same subject, this account the legend is variously explaine has different features. The story more gen accepted is the following: Jason, the so has different features. The son, the son accepted is the following: Jason, the son excepted, was ordered by Pelias, his uncle, sow eign of Iolcus, in Thessaly, to reconquer as bring back the golden fleece of a ram on whi Phrixus and Helle ran away, and which flee mailed by Phrixus to an oak in the great was also been designed. Phrixus and Helle ran away, and which is was nailed by Phrixus to an oak in the gof Ares (Mars), and watched by a sleepland on. Jason intrusted Argos, the son of Phri with the duty of constructing a 50-oared named after the builder, and invised all named after the builder, and invised all heroes of Greece to join him in the advent Orpheus, Castor and Pollux, Thesees, Here and many others, 50 in number, answered appeal. The Argonauts landed first in Leasuher where they stayed 2 years. The Leasuher killed all their own men, for their having fended Aphrodite (Venus). From Leasuher Argonauts went to the Dollans, by whom twere first hospitably received, but being at Argonauts went to the Dollans, by whe were first hospitably received, but bein ward taken for Pelasgians, they were ed and in the naval strife which follows killed the Dollan prince. Then they has

where Hercules and Polyphemus were account of their remaining behind in of Hylas, who had been carried away mph. In the land of the Bebryces they shallenged by the king Amyous, to a shallenged by the king Amyous, to a contest, and the challenger was slain by. Then the wind drove them to the of Thrace, to Salmydessus, where they the advice of the seer Phineus, how to etween the Symplegades or the swimter of the Agean, which crushed every in their way. By the advice of Phineus received by Hera (Juno), suffered only a damage in the stern. From this moment resplegades never moved. Thence cong the exploration of various lands, the g the exploration of various lands, the sors finally reached by night the mouth Phasis in Colchis, the goal of their exmander. As etcs, the king of the country, and the fleece to Jason, but under the conthat the hero should yoke to a plough breathing iron-footed bulls—a gift of actus (Vulcan), and sow the teeth of a left by Cadmus in Thebes. Medea, there of As etcs, and a powerful witch, fell by in love with Jason, and he promising means the taught him how to overcome the exploration of various lands, the

ge, she taught him how to overcome the Advised by her he threw a stone among mriors who sprang up from the teeth of ragon, and who being thus enraged killed sther. After this deed was accomplished, wishing to evade his promise, intended

the Argo and to kill the heroic crew.

told Jason of it, who ran to the grove,
the fleece, the sleepless dragon having
lulled by Medea. Then with his paraand her brother Absyrtus, Jason sailed off the brother and threw the chopped limbs mer the other into the sea; the father red them up, and was thus prevented reaching the fugitives. The Argonauts the river Eridanus, but lost their way hem that the storm was sent by Zeus, and he wrath of the god would continue un-ny should sail to Ausonia (Italy) and be red by Circe. They coasted Liguria, the f the Celts, and through the sea of Sar-serived at the Tyrrhenian shores and along to the island of Circe. Having ful-the atonement, they left and coast-ir the islands of the Sirens, from whose ments they were preserved by the songs pheus; then they passed between Scylla harybdis helped by the goddess Thetis, and d at the island of Corcyra. Then they wertaken by a storm, and saved by Apollo, smid lightnings, pointed to them the island of the modern Nanfi. In Crete, Talos, ant, tried to prevent their landing, but despatched him. Thence they went to , and passing between Eubosa and Locris

finally reached Ioleus. This voyage on their return lasted 4 months. The Argo was consecrated by Jason on the Isthmus of Corinth to Poseidon (Neptune). So ended the expedition through the Black and Mediterranean seas, the first recorded in the heroico-historical legends

of Europe.
ARGONNE, FOREST OF, the former name of a region comprised in the department of Meuse and Ardennes, France. It forms a plateau, partly wooded, and lies between the basins of the Aisne and Meuse.

ARGOON, a river of Tartary, which rises from Dalai lake or Kaulon-nor, situated in long. 119° 14' E. and lat. 49° N. It forms the boundary between the Chinese and Russian empires. This river is thought to be the original source of the

ARGOS, or Argoris, is the north-eastern part of the Morean peninsula, between the bay of Nauplia and Ægina. The eastern continua tion of the northern mountain range of the Peloponnesus surrounds, as with ramparts, a part of the inhabited shores, which bear marks of volcanic convulsions, and the plain of Argos, which is fertile, but rendered unhealthy by marshes. The most eminent mountainous groups are the Malevo, called by the ancients Artemision, 5,484 ft.; the Hag-Ilias, very anciently called the Arachnaton, 8,676 ft.; and the Didyma, 3,300 ft. The largest plain is situated near the city Argos, behind the bay of Nauplia, watered by the river Planitza, the classical Inachus. Only a few other spots are fit for agriculture, on account of the want of water, as all the streams except the Inachus and the Erasinus, now called Kephalari, dry up. But the many bays render Argos favorable for navigation. In antiquity Argos, or Argo-Peloponnesus surrounds, as with ramparts, a part for navigation. In antiquity Argos, or Argolissa, was strictly the plain surrounded on the west by the Arcadian mountains, and on the west by the Arcadian mountains, and on the north by those of Phleiss, Gleona, and Corinth. In the Roman epoch Argos represented the eastern part of Peloponnesus, bounded on the north by Achaia and Corinth, on the north-east by the Saronian bay, on the west by Arcadia, on the south by Laconia, and on the south-west by the bay of Argolis. Argos belongs to the earliest cultivated regions in ancient Greece. Inachus (1800 B. C.) and Danaus (1800) landed from Egypt and settled in Argos. Here ruled from Egypt and settled in Argos. Here ruled Pelops, who gave his name to the peninsula, and, Here ruled in various single states, his descendants, Atreus, Agamemnon, Adrastus, Eurystheus, Diomedes, heroes of the primitive legend. In Argos was born Heracles, or Hercules; here, near the marshes of Lerna, he killed the hydra, in the cavern of Nemea he strangled the lion. the remotest times Argolis was divided into the smaller kingdoms of Argos, Mycenæ, Tiryns, Trezene, Hermione, and Epidaurus, which all afterward formed republics. After the emancipation of Greece from the Turkish sway, until the year 1888, Argos formed one of the 7 departments into which the Morea was divided. Argolis, or Argos, now forms a 76 ARGOT

government of the kingdom, with about 90,000 inhabitants, Spezzia and Hermione being subordinate provinces. Nauplia is the capital. The ancient city of Argos has preserved its name from the remotest to the present times. The inhabitants have been celebrated for their love of music, and within its walls, as well as in Delphi, were statues to the brothers Biton and Cleobia, renowned in the classical world for having sacrificed their lives for their mother. The city suffered much in its capture by the Venetians, in 1686, and its recapture by the Turks, in 1706.

ARGOT, the general name for the modes of expression current among criminals and outcasts in France. The etymology of the word is surround-ed with the same darkness which hovers around the class who inaugurated its use. at all times existed a most lamentable freemasonry among the adepts of vice, and in all countries we find them induced to adopt a fictitious language as a fit exponent of their fictitious language as a ne exponeur or their thoughts, and as a prudential measure for the purpose of escaping detection. The English vocabulary has no special name for such dialects, but characterizes it by the general term of thieves' Latin, slang, &c. In Italy rogues use the so-called Fourbesh languages, of which the so-called Fourbesh languages, of which several vocabularies exist, among others, various editions of the Nuovo Modo da Intendere la Lingua Zerga, cioè parlar Furbesco. In Spain the criminal language wears the name of Germanus, from the Latin Germanus, and several words of it having been used in "Don Quixote," as well as in another of Cervantes' novels, entitled Rinconets y Cortadillo, and in various other works, a Spanish amateur of Argot, Juan Hidalgo, compiled a book upon the subject, which passed through 6 editions, the subject, which passed through 6 editions, the mances de Germania de Varios Autores, con su Vocubulario, de. In Portugal a novel appeared Vocubulario, de. In Portugal a novel appeared in 1844—Frei Paulo, ou os Poss Misterios written by a member of the Lisbon academy, Corvo de Cames, in concert with other Portuguese men of letters, in which a great number of words of the Culao (this being the name for the language in vogue among Portuguese criminale) are introduced. In Germany the name of the language is Rothwaleck, composed of low, high, Jew, and Gypsy German, but possessing a grammar and almost a literature of its own. one of the earliest and most curious books on the subject, Von den Falschen Bettlern und ihrer Bubercy, was brought out at Wittenberg, in 1828, with a preface written by no less a personage than Martin Luther. In Holland the name of the language is Burgoena or Dierentael. In Scandinavia we find, beside or Dierentael. In Scandinavia we find, testue the Funtasprey, or Argot language, which is spoken of in Sund's work, published at Christiania in 1950, Om Funte-eller Landstrygerfolket y Norge, the Tatersproget, or gypsy gibberish, and the Shriersproget, or the jargon of vagabonds, much in vogue among the rancals of Norway, Sweden, and Denmark. The Berlin

prostitutes have adopted a language of their own, as is the case with the same class of persons generally, especially the Egyptian Opprians, known under the name of Ghassass. Among the German Jews a mysterious language is frequently resorted to, but more for playful than for criminal purposes, which is called Erbsensprachs. The Jews generally patronize miscellaneous gibberish, and in the dark corners of the ghetti Jew Argot languages est, although Hebrew genius has hitherto neglected to publish dictionaries and cyclopadies of the same. In Albania an Argot Isanguage lected to publish dictionaries and cyclopudies of the same. In Albania an Argot language is spoken which presents a singular compound of modern Greek, Wallachian, Italian, Latin, with a slight dash of original invention, and which is chiefly used by quack doctors, the factitious verb expressive of exercise of the medical profession (which in these regions is not in the best hands), narequant(sue, being synonymous with cheating. Asiatic criminals and outlaws speak the Balaībalan, a fictitious language besting some resemblance to the Arab, Persian, and Turkish vocabularies, and a cue to which is to be ing some resemblance to the Arab, Persian, and Turkish vocabularies, and a cue to which is to be found in Silvestre de Sacy's essays on the subject, in Notices et extraits des manuscrits (vol. ix. pp. 365-396), and in the Journal Asistique (1822, vol. i. p. 141). The Indian Theps speak the Ramaseena language, a vocabulary and history of which appeared at Calcutta in 1836, while a book published on the Thugs in the ensuing year by Wm. Allen and Co., of London, it is calculated to throw further light upon the same subject. These are the only two Asiatic landous products of the same subject. subject. These are the only two Asiatic las guages of the kind of which we have historia evidence, although many others are supposed t exist.—Though criminals resort to fictitious las guages in all countries, nowhere has this propos-sity reached the artistic perfection to which it has attained in France. The Argot language of the worthless characters of France has unfortunately found a very conspicuous place in mern French novels, especially in Engène & Mystères de Paris. Indeed, the novel-resi Mystères de Paris. Indeed, the novel-read public found it so difficult to unravel the public found it so difficult to unravel the las guage used by Suc's chief characters, as le che rineur, le maître d'école, and la chouette, the it became necessary to publish a Dictionnais complet de l'Argot employé dans les Myssim de Paris, which is to be found in all the beel stores of Paris. Victor Hugo, in his Dorné jour d'un condamné, narrating the impressie produced upon his mind by a young girl who sings a song in the Argot language, says: "I ne saurais rendre ce que J'eprouvais; J'étai à la fois blessé et carené. Le patois de la ce verne et du bagne, cette langue ensanglantée e grotesque, ce hideux Argot, marié à une voix d'estant à une voix de femme! tous ces mots different la une voix de femme! tous ces mots different la complete de la complete de la celes de la cel fant à une voix de femme ! tous ces mots d rant a une voix de femme! tous ces mots dist mes et mal faits, chantés, cadencés, periés l' "I could hardly express my sensations; I s' shocked and pleased at the same time." This of the jargon of the bar-room and the galley, this bloody and grotesque language, of ti hideous Argot, wedded to the voice of a year

Le beau gibet *espouserée*, Pour estre de nopces tous troys.

The beautiful gallows you shall espouse, And there we three will pay our vows.

on, in which the two thieves on their way cross are addressed by Orillart as fol-

oo, Guillaume, brown bread, is said to rezer, and who, when subsequently embody-he character of a baker upon the stage, irre-ly reminded the spectator of brown bread. whole Argot vocabulary is made up of such promaly or fantastically concocted words, ared over the grotesque, satirical, and erotiterature of former times, or borrowed from typsy or kindred languages of other national languages of the national languages of the national languages of the la rinto-Pélagie, was published at Paris. But prosperity of Argot literature dates more cularly from 1828, when Maurice and l'Hé-(de l'Am) brought out the Mémoires de seg, founded upon data furnished by that d functionary himself, who, until 1827, I the office of chef de la police de sûreté, who was, of all men in Paris, the best crity upon the subject. In 1887 appeared rork on thieves, containing the Argot dic-ry which he had begun in 1819, at the set of the prefect of police. It was this leation of Vidocq's dictionaries and revela-which gave such a remarkable impulse to Argot literature. Since then various other s upon the Argot language have been pub-d, of which Michel's Etudes de philologie erés sur l'Argot, dévéloppement d'un mé-s couronné par l'Institut de France, pub-d in 1856, by Didot, at Paris, is the most

BGOUT, ANTOINE MAURICE APOLLINAIRE, to d', a lucky French statesman and finanborn in 1782 in the department of Isère.

When scarcely 20, he entered the treasury department, where he was promoted from office to office during the empire. From 1812 to From 1812 to 1814 he acted as general superintendent of the navigation of the Rhine. On the restoration of the Bourbons, he did not hesitate to abandon his former master for a new one, and by great zeal rapidly rose to posts of eminence. As early as 1815 he was appointed master of requests to the council of state, and prefect of Basses Pyrences; in 1817 he was transferred to the more important prefecture of Gard; Jan. 1819, he became a councillor of state in ordi-nary service, and in March following a peer of France. When the revolution of 1830 broke France. When the revolution of 1830 broke out, he interfered and tried to prevent the effusion of blood; on the 28th of July, in conert with Semonville, the grand referendary to the chamber of peers, he repaired to the chateau of St. Cloud, where Charles X. then was, to obtain the recall of the ordinances, which were the direct cause of insurrection. Their mission was successful; but when they brought the happy result to Paris, Gen. Lafayette anhappy result to Paris, Gen. Lafayette answered: "It is too late," and the terms which they had to offer were not even entertained. D'Argout, who had no taste for fallen fortune quickly went over to the new government, an was even more favorably treated by the Orleans king than he had been by the Bourbon, as may be seen by the following list of his promotions to office: secretary of the navy in 1830, secre-tary of commerce and the public works in 1831, hence secretary in 1832, secretary of the hank home secretary in 1888, governor of the bank of France in 1884, secretary of the treasury in 1886, then again in the same year governor of the bank. The revolutionary government of February did not even think of his removal, and to the property of the bank. Louis Napoleon maintained him in his post until July, 1857, when he withdrew. He was created a senator by a decree of Jan. 16, 1852. ARGUELLES, ACCETIA, Spanish statesman, born at La-Riba-de-Sella, in Asturia, in 1775,

died March 28, 1844. He was sent on a mission to Portugal, and soon after to London on special On his return from England he joined business. the patriots in their efforts against the French, and became a member of the cortes of Cadiz. His employment in foreign affairs by the government and the liberal tenets which he professed, won him the confidence of his party, and he was one of the committee charged with the preparation of the new constitution, which under the title of the constitution of 1812, reduced the kingly power to the very narrowest limits, rescued the ancient municipal govern-ment of the provinces and towns, and gave ample representative rights to the people. After Ferdinand VII. was restored, this constitution was abrogated in May, 1814. Arguelles was seized and thrown into prison, and finally sentenced to 10 years exile in Ceuta. Here he made himself friends, and the government, alarmed at his growing popularity, imprisoned him in the Balearie island of Cabrera. When the revolution of 1820 broke out, his partisans

forced the king to accept Arguelles as minister of the interior. But he had not practical knowledge and the business capacity which fit men for power. He was obliged to resign, and took his place in the cortes as leader of the moderate party. When Ferdinand at last restored the most absolute despotism, Arguelles fied to England, where he remained until he was recalled in 1833 by the regent Christina. In the cortes he exercised all his powers against the government party until the accession of Mendizabal to power, when he joined him with the expectation of restoring the constitution of 1812. In 1836 he was appointed a member of the council of regency after the exile of Queen Christina. In 1837 the queen appointed him a member of the senate. In 1841, on the motion for the sale of ecclesiastical lands, he warmly opposed any compromise with Rome. He was appointed tutor to Isabella and her sister, a post which he retained until 1843. He died of a fit of apoplexy. He must not be confounded with José Canga Arguelles, another Spanish statesman of the present century.

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of apoplexy. He must not be confounded with José Canga Arguelles, another Spanish statesman of the present century.

ARGUIN, an i-land 8 miles from the west coast of Africa, lat. 20° 27° N. long. 16° 37′ W. Its surface is comp-sed of white rock and drifting sand, and it furnishes excellent water. The hank of Arguin extends from Cape Blanco to Cape Mirik, west coast of Africa.—Also a town of Western Africa, on the coast S. E. of Cape Blanco.

ARGURI, formerly a large and beautiful village in Russian Armenia, 186 miles S, from Tiffis, on the N. E, slope of Mount Ararat, 5,400 feet above the level of the sea. The inhabitants, about 1,600 in number, supported themselves by rearing horses and growing corn, and also by cultivating the vine, which, according to a local tradition, was first planted there by Noah when he left the ark. A little distance from Arguri, up the mountain, was the monastery of St. James, the residence of Parrot and his companions during their exploration of the mountain. In 1840 the monastery and the village were entirely overwhelmed by an eruption of Ararat, and of all the inhabitants and monks, numbering tearly 2,000 persons, only 114 who were engaged in the fields escaped. Since then the wells and fountains in the vicinity have sent forth only a discolored and sulphureous water.

water.

ARGUS, a creature of ancient mythology, said to have had a him fired eyes, or, as others say, eyes all over his body, of which only 2 slept at once. He was set by Juno to watch the priestess to transformed into a white cow. He was idled to sleep by Mercury, who played sworthing times on the pape of Pan, and then slew him with his crooked sword.

He was lifted to sleep by Mcreury, who played swithing times on the pipe of Pan, and then slew him with his crooked sword.

AlteYLE, Dukk or, head of the great Scottish clan of Campbell, of nearly the oldest Celvie descent in the Highlands. His patronyme, Maccalain-Mor, the son of Allan the Great, corrupted into Macallum More, is the favorite title of the Highlanders for their chief-

tain, and has been more valued by the pos-sessors than the hereditary title which belongs to the head of the house. The greater part of the county of the same name, bounded south by the Irish sea and the frith of Clyda, including the wild districts of Ardnamurchan and Morven, the isles of Mull, Jura, Islay, Buta, and Colonsay, and containing some of the mo magnificent scenery of the western Highlands formerly belonged to this powerful and wealthy clan, the principal residence of its chief bein Argyle castle, at Inverary, the scene of some of the most romantic incidents in Sir Walter Scott's "Legend of Montrose," Several of the chiefs of this house were men of considerable abilities, and played remarkable parts during the stormy political periods of the 16th and 17th centuries. One earl of Argyle, in the 17th centuries. One earl of Argyle, in the reign of Queen Mary of Scotland, having joined the association of reformers, known as the congregation of the Lord, was involved in conspiracies against the queen, and forced to fly to England, for the preservation of his life, but was subsequently invited to return by Darnley, His family and was reconciled to the queen. always continued to be energetic reformers, and were invariably hostile to the house of Stuart, was maintained and exager which enmity ated by the fact that the royal family of Sectland was strenuously supported by the noble house of Graham, and its chief, the duke of Montrose, the feudal and hereditary opponents of the Campbells. In the year 1639, Archibald, the then earl of Argyle, "a man," according to Hume, "equally supple and inflexible, castious and determined, and entirely qualified to make a figure during a factious and turbulent period," embraced the covenant, became one of the chief leaders of that party, and the head of the Scottish malcontents. He was a man of great political audacity, coolness, resource, and intrepidity, but of no military skill, or even courage. In the campaign of Montrose, in the western Highlands, he was not only haffled. Montrose, the feudal and hereditary opponents courage. In the campaign of Montrose, in use western Highlands, he was not only baffied, ont-manoruvred, and defeated by that able and gallant partisan, but deserted his army, and in account strong imputations of cowardice, from which his character is only redeemed by the dignity and firmness with which he afterward met his death on the scaffold. When Montress was at last overpowered by his enemies, and put to death, with every indignity and incals which political malignity and religious intoould devise, it is said that Argyle had the cruelty and ungenerous brutality to triumph openly at the downfall of his personal as well as political for, and the window is still shown, out of which he is said to have gazed comple-cently on the passage of the rabble rout, by which the noble cavalier was conveyed, bound ignominiously with ropes in a common care with the executioner riding before him, to the place of execution. When Charles II, was in Scotland, with the army of the covenant, which had then joined his cause against the parlis-ment, although Argyle went with his party, be

sever had any real intimacy with the king, and inough nominally employed as his principal gentleman in attendance, in reality held Charles sarrly as a prisoner, until disgusted with the adignities, and amoyed beyond endurance by he formalities to which he was subjected, the ting endeavored to escape from the state of smi-captivity in which he was held.—After he defeat of the royalists at Worcester, and he capture of Stirling castle, Dundee, Dumies, and all the fortified places in Scotland, by hen. Monk. Argyle gave in his submission to hen. Monk, Argyle gave in his submission to he parliament, and Scotland was at length rehead to total subjection. On the return of heads II., and the restoration of the crown to he house of Street Arryle was brought to he house of Stuart, Argyle was brought to rial, in spite of two several acts of indemnity, ither of which really formed invincible obstales to any legal conviction of this nobleman or any of his overt offences, so that he was ried only for compliance with the usurpation of Cromwell, and the commonwealth, a crime of which, if it were a crime, as Hume has well re-marked, the whole nation was equally guilty with himself, and which no degree of loyalty sould have prevented him from committing, ince he had no option but to obey a force which he had no means of resisting. In spite which he had no means of resisting. In spite of this, however, he was convicted, sentenced, and executed, and the ungenerous cruelty of its conduct toward the noble and unfortunate Montrose, prevented him from receiving the sympathy which he would otherwise have met, and to which the calm and dignified fortitude with which he encountered his death surely which which he electricated his death surely matthed him. The son of this nobleman, who, when Lord Lorne, during the life of his father, and been distinguished by his loyalty, and who aving never swerved from the royal party, and escaped the forfeiture of his estates for his the testaped the forlettire of his estates for his ther's treason, early in the ensuing reign, in his treamous support of the Protestant ascendency, and his opposition to the exemption of princes of the blood royal from taking the test-oath, gave such mortal offence to the duke of York, afterward James II., that in consequence of that prince's influence with his weak and easy brothr, Argyle was put on his trial for high trea-ton, leasing-making, and perjury, and was con-lemned and sentenced to death, without a semplance of cause, or any evidence against him, for nnocent words spoken in debate. The king, nowever, caused the sentence to be recorded, and he execution of it to be suspended until further rders. Not having, however, any confidence in his seeming clemency, Argyle escaped to Holand, where he kept himself concealed, and in and, where he kept himself concealed, and in utirement, until after the accession of James L, and his intolerant and illegal measures in indeavoring to overthrow the Protestant institutions of England, and establish on their wreck the long-proscribed church of Rome, when, in conjunction with the duke of Monmouth, a natural son of Charles, he returned in in evil hour to England, and set up the banner of rebellion in his native land, while Mon-

mouth was engaged in the fatal rising of the west of England, which terminated so disastrously in the total defeat of Sedgemoor, and in the barbarous and bloody executions which followed it. Argyle had not even the temporary show of success, which gleamed at first on the banners of Monmouth, for he was defeated and taken prisoner within a few days of landing; and with his stubborn Protestantism, and the personal hostility which the cruel, inflexible, and narrow-minded man, who then sat on the throne of England, bore to him, it was, of course, out of the question that he should escape the same-sentence which was so rigorously executed by James on his own brother's son. The marquis of Argyle died, as his father had done before him, with dignity, and without a tremor, and with his death the disloyalty of this noble family came to an end, for since the ex-clusion of the Stuarts from the succession to the English crown, the heads of the clan Campbell have been as much celebrated for their faith to their princes, as for their nign spirit, and their ardent love of their country.—
GEORGE JOHN DOUGLAS, 8th duke of Argyle, born April 30, 1828, succeeded to the title April 26, 1847. At an early age he acquired some celebrity by writing a "Letter to the Peers, from a Peer's son," on the free church question. It is asserted that in the hour of the failed to carry out the principles therefaith to their princes, as for their high spirit, question. It is asserted that in the hour or trial he failed to carry out the principles there in avowed. In 1848 he wrote an anti-Roman Catholic work, entitled "Presbytery Examined." In July, 1844, he married the Lady Constance Gower, daughter of the duke of Sutherland, whose vast Scotch estates adjoin his own. In consequence of his great landed influence and the active part he took in poinfluence, and the active part he took in political matters, he soon acquired a position, and became, as postmaster general, a member of the cabinet in the Palmerston ministry.

ARGYLESHIRE, a western county of Scotland, comprising about 2,000,000 acres or one-tenth of the surface of Scotland. It is remarkable for its picturesque character rather than for cultivation or populousness. The population indeed is perhaps the lowest in the British isles, not exceeding 32 to the square mile; nor is there any probability of considerable increase, for the policy of the great land owners of that district has been to remove the tenantry, and to create extensive sheep-walks. This policy has been the subject of considerable reprobation, and it has been epigrammatically alleged that the man has been removed for the sake of the brute. The peculiar character of the Highlander, his fixed attachment to the habits of his ancestors, his incurable aversion to that every-day labor which can alone improve his position, and the worthlessness of the land for any purpose of agriculture, have been the defences of the landlords, who, it cannot be denied, have expended large sums of money in promoting the emigration of their tenantry. The mountain district of Argyleshire contains Cruachan Ben, rising to the height of 3,669 feet, with many other lofty

hills dear to Scottish hearts, and celebrated in national poetry. The largest of the inland lakes is Loch Awe. The mountains are chiefly of granitic formation. Argyleshire is not rich in mineral resourcest. Lead, copper, and coal are resourcest. worked, but not in very great quantities. The raising of cattle and sheep is carried on with great success. The moors yield abundance of great success. The moors yield abundance of game, grouse, ptarmigan, and black cock, while the noble red deer yet courses the wastes of his native hills in freedom. The proprietorship of this large county is in few hands. The duke of Argyle, the marquis of Tweeddale, and the marquis of Breadalbane, are the chief land-owners. The dukes of Argyle could once bring The dukes of Argyle could once bring owners. The dukes of Argyle count once or mg 8,000 or 4,000 men into the field; but although their feudal influence may have declined, the value of their property cannot but be proportionably increased. There are various natural curiosities in Argyleshire, the most remarkable being the columns and cave of Staffa. The most important modern structure is Inversry castle, the family seat of the dukes of Argyle, built of a peculiar stone called lapis ellar local production, being a kind of micaceous slate.

Dunstathage castle is an interesting ruin. Dunstaffnage castle is an interesting ruin. Gaelic is still generally spoken in Argyleshire, although of late years the English language is better understood, and is gradually superseding the Gaelic

ARGYRAMMOS, ALEXANDROS, a modern Greek, born 1810, who out of zeal for his native Greek, born 1810, who out of zeal for his native tongue, became a printer, in order to publish at Constantinople the vast Greek lexicon, known by the name of Kisaros. The 1st volume, containing the first 4 letters, appeared in 1819. During the war of Greek independence he was unable to procure types from western Europe, and he established at Constantinople a type-foundery for the sole use of the lexicon.

ARGYRO KASTRO, a chief town of Albania, on the river Deropul. an affluent of the Roisensan.

on the river Deropul, an affluent of the Boioussa. It is built on the side of a mountain, and the streets are so steep that persons on horseback are obliged to dismount. The streets are sepa-rated by ravines, planted with gardens. There are obliged to dismount. The streets are separated by ravines, planted with gardens. There is a strong castle which was enlarged by Ali Pasha, and has accommodation for 5,000 men.

Pasha, and has accommodation for 5,000 men. The population is about 10,000.

ARGYROPULUS, JOHANNER, one of the principal revivers of Greek learning in the 15th century, born at Constantinople, died at Rome, where he held a professorship of philosophy in 1486. In 1434 he came to Italy, acquired the favor of Cosmo de Medici, and was acquired the favor of Cosmo de Medici, and was acquired the favor of Cosmo de Medici, and was the instructor in Greek of his son and grandson In 1480 he removed to Rome. His principal works are some Latin translations of Aristotle. He was strongly prejudiced against the Latin writers, and declared Cicero to have been

alike ignorant of Greek and of philosophy.

ARIADNE, according to Homer, daughter of Minos, king of Crete, and of Pasiphse. When escus landed at Creto with the tribute of the Athemans for the Minotaur, Ariadne fell in love with him, and gave him a clew of thread

by means of which he found his way out of the labyrinth. Theseus offered her his hand, in token of his gratitude. Arisdne eloped with him, but as they arrived upon the island of Naxos, they were killed by the arrows of Artemia. According to the common tradition Theseus abandoned her upon the island of Naxos, when Bacchus married her, and after her death transferred the crown which he had given her at their wedding, to the stars. The incidents in the life of Ariadne have been fruit ful themes for the fine arts.

ARIALDUS, a descon and martyr of the church of Milan, born in the village of Europe. between Como and Milan, in the first half of the 11th century, died at Milan, June 28, 1064. He followed from childhood the bent given him He followed from childhood the bent given him by a religious education, adopted the ecclesiantical profession, and made his first appearance in Milan in 1056. This was the age of Hildebrand, when that mighty promoter of the pepacy, though not yet occupying the chair of fit. Peter, was laboring atrenuously for the refermation of the clergy, the suppression of simony and corruption among ecclesiastics. The church of Milan, mindful of its ancient dignity under St. Ambrose, asserted a sort of independence, and was not inclined to submit to the new discipline. The practice of simony had there The practice of simony had sched such an extreme that for every spirit office a sum was openly paid proportionate its value, the archbishop Guido himself have obtained his office in this way; and by a traffic many unworthy men had arrived as i ortant stations in the church. had always led a pious and strictly moral life in Arialda his own country village, was scandalized immoralities and worldly life of the ch immoralities and worldly life of the clergy of Milan, and began to preach to them repentance. They repelled him with contempt, and he them directed his preaching to the laity. He sat is opposition to the worldly pride and the White connections of the present ecclesiastics, the example of Christ and the idea of a clergy spointed to follow Christ in poverty, purity, and the reserve of the young electrons. pointed to follow Christ in poverty, purity, as humility. The piety of the young clergyms was so earnest, and his convictions so just, the his discourses were favorably received by the multitude, and the clergy, who by reason of the reverence felt for their office, had hitherto has regarded with respect in spite of their person unworthiness, gradually became objects of payular contempt and abhorrence. Meantime aldus had found an associate in Landshita, young man of one of the noblest families. aidins had found an associates in Landau young man of one of the noblest fine Milan, and a more vehement and populars even than Arialdua. These two pressi-gether throughout the city, exhorting the to shun all intercourse with the corrupt and even to refuse the scoraments from The whole propulation of Milan become and even to retuse the sacriments from The whole population of Milan became di into two hotly contending parties, both of lodged complaints with Pope Nicholas II. latter sent two legates, the learned on Peter Damianus, and the archbishop Am of Lucca, to Milan to investigate the subst

onvoked a synod there for this purpose.

recedence of the archbishop Guido of Milan on whice occasions, he offended the pride of the ffances nobility; and even the populace did the like to see the humiliation of their ancient Imbrosian church. The firmness of Damianus neceeded in enforcing the supremacy of Rome, ad the spiritual court proceeded to pronounce adgment. Simony was to be renounced by the lergy, but it having been an almost universal wil in the Milanese church, the penalty should e somewhat mitigated toward so large a multibe somewhat mugated toward so large a multi-ade of offenders; and pardon for the past was be had by undergoing due penance. Nothing ras done to prevent the offences against virtue and against the ecclesiastical law of celibacy pardly less common than the simoniacal pracices, and Arialdus complained at Rome of the continuance of irregularities. The disturbances **Milan were, however, quelled until the death

**Thicholas, and the election of Anselmo as new

pope under the name of Alexander II., when

they broke out again with greater violence.

Landulphus had died, and his warlike brother Eriembaldus, just returned from a pilgrimage to he holy sepulchre, joined himself to Arialdus is a popular leader. They went together to Rome, where Alexander II., having assembled a council in which Hildebrand took the leading part, appointed Erlembaldus the gonfaloniere r standard-bearer of the universal Roman church, and delivering to him the consecrated banner of St. Peter, bade him unfurl it against the enemies of the church whenever he should ind it necessary to resort to other than spiritual weapons. He also gave them a declaration by which the archbishop of Milan was excommunicated. The return of Arialdus and Erlembaldus inted. The return of Arialdus and Erlembaldus thus supported, was the signal for bloody commotions at Milan. The people, fickle in their neal and passions, were powerfully moved by posite motives. The eloquence of Arialdus manned them against the corruptions of the lergy; the memory of the freedom and dignity of the Ambrosian church made them indignant the assumptions of Paper Arialdus winds. gainst the Amorosian church made them indignant the assumptions of Rome. Arialdus continued his exertions, but at last fell a victim to the vengeance of the exasperated aristomatical party, being murdered on a desert sland in Lake Maggiore, about 10 years after to had preached his first sermon in Milan. His Reme was enrolled in the list of martyrs by cope Alexander II. (See Pope Alexander II.) ARIANO, a town of Naples, 15 miles N. E. rom Benevento. It is built upon a steep hill, ARIANO, a town of Naples, 15 miles N. E. rom Benevento. It is built upon a steep hill, a one of the most frequented passes of the Aprinaires, and many of the poorer dwellings are ing into the rock and earth. It is the see of a suffragan bishop, and contains a fine cathedral, to churches and convents, several monts-depicté, and an academy. This town has frequently been visited by terrible earthquakes, the last of which happened in 1732. Pop. 11,718. ARIANS, the followers of Arius (315). The thurch had early been content to affirm the vol. II.—6

existence of 8 persons in the Trinity, without defining their nature and relations to each other. Alexandria was the natural birthplace of the discussions into which those matters were sure, sooner or later, to come, and of which Sabellianism had already given a half century's warning. Arianism takes its rise as a doctrine, in the reply of Arius to a discourse by Alexander, bishop of Alexandria. The bishop maintained that Christ was not only equal to the Father, but of the same essence. Arius affirmed, would lead to Sabellianism, being a virtual denial of the tripersonality of God; he claimed that Christ was equal to the Father in power, but only similar in essence, and converted from the division will end that and generated from the divine will, and that "there was a time when he was not." The council of Nice (325) condemned Arius and his doctrines, banished him to Illyrica, ordered his writings to be burned, and decreed consubstantiations the wheely fifth Arionism was at tiation as the orthodox faith. Arianism was at first little more than a protest against Sabellianism, and in favor of the orthodox views of the Trinity. But the subject of the nature and relations of the persons in the Trinity once broached, the Arians soon found no agreement broached, the Arians soon found no agreement among themselves, and fell into two opposing parties, viz.: the strict Arians, or Heterousians, because they believed Christ to be of another nature or essence from God; and the semi-Arians, or Homoiousians, who believed the Son to be of a nature similar to the Father. Both were included under the general term Anti-Nicene, because they opposed the decree of that council. With various fortunes they contended with each other and with the orthodox tended with each other, and with the orthodox or Nicene party, called Homoousians (because they believed that the nature of Christ was the same as the Father's), for more than 300 years, extending their doctrines into Spain and the German states; however, they do not appear to have extended their influence into Britain, so late as the council of Antioch (363). Arianism was more successful, from various causes, in the eastern than in the western church. It is less important in itself than in the movements to which it has been the occasion. Apollinaris, in order to attain what he deemed a better ground for opposing Arianism, than the orthodox one, de-nied the humanity of Christ. This gradually This gradually forced the Arians progressively to the other ex-treme of denying his divinity, and so began a movement in theology of which the church has movement in theology of which the church has yet to see the consummation. Arianism since the middle of the 16th century, has gradually merged itself into what it had originally no affinity with, viz., Socinianism, and out of that has been slowly evolved Unitarianism. The Arianism of Arius does not now exist. Servetus is said to have revived it in the 16th century, and the same thing has been alleged of Erasmus. Arianism was powerfully opposed by Theodosins I and finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed by Indeed to the same thing has been alleged of the land finally expressed the land f Erasmus. Arianism was powerfully opposed by Theodosius I., and finally suppressed by law in the Roman empire under Theodosius II. (428), after having been alternately condemned and decreed by councils of bishops for 107 years.

ARIAS MONTANUS, BENEDICTUS, a Spanish ecclesiastic and learned oriental scholar; was born in a village of Estremadura in 1527, and died at Seville in 1598. Philip II, sent him to Antwerp in 1568, to superintend the publication of the magnificent edition of the "Polyglot Bible," to be prepared in that city. The task ARIAS MONTANUS, BENEDICTUS, a Spanish of the magnificent edition of the "Polygiot Bi-ble," to be prepared in that city. The task employed him for 4 years, and he was rewarded with a pension of 2,000 ducats, and some profit-able offices. His numerous works are princi-pally theological. He was an unyielding enemy of the Jesuits.

of the Jesuits.

ARICA, a maritime town of Peru, capital of a district of the same name, lat, 18° 28′ 1″ S. long, 70° 24′ W. It was formerly the port of shipment for the silver from the famous mines of Potosi. It is still a place of shipment for bullion, and for the trade with Bolivia, of which state it was proposed in 1836 to make Arica the port of entry. It was sacked by Sir Francis Drake in 1572, and has since been much reduced by carthouakes. Ponula-

been much reduced by carringuagestion, 3,500; once estimated at 80,000.

ARIEGE, a name common to a river and a courtern France. The river and a courtern france. department of southern France. The river rising in the Pyrénées-Orientales, flows north ward, and empties into the Garonne, after a course of 90 miles. It was called by the Romans Aurigera, from its carrying gold-sand.—The department which derives its name from the river, consists principally of the northern slope of the Pyrenecs, and is covered with moun-tains, which gradually increase as they come nearer to the great chain. It contains valuable iron mines, the ore being in some places auriferous, and large quarries of marble, freestone, On the highlands are meadplaster, and slate. ows, where cattle and sheep are raised in large numbers; nowhere in France is the care of merinos better understood. The trade in these sheep and in their wool is considerable. The forests furnish good timber. Bears, wild boars, wolves, foxes, and deer, are abundant. The lowlands are tolerably fertile and well cultivated, producing wheat, rye, oats, maize, millet, hemp, and flax. Vineyards, to the extent of 5,000 acres, yield a wine of inferior quality, all of which is consumed at home. The working of metals is the principal branch of manufacturing industry; but there are beside saw-mills and oaper mills, manufactures of cloth, hosiery,

paper mills, manufactures of cross, morely, linen, and scap. Pop. 205,907.

ARIEL, a Hebrew name, signifying "Lion of God," i. c. Hero, or city of Heroes, is the name given to various persons in the Old Testa-ment, and also applied to the altar of burntofferings, or to the city of Jerusalem, as in Isaiah xxix, 1, 2, 7. Among the Jews of a Isaiah xxix, 1, 2, 7. Among the consequent later period, the name was, in cabalistic parlance, given to a water spirit.—In modern times Shake speare's genius has thrown a poetical halo the name of Ariel. In his "Tempest" over the name of Ariel. In his "Tempest" Ariel is represented as a spirit of air, and as servant of the witch Sycorax, the mother of the ugly Caliban; and being unable to perform Ler dirty work, she imprisons him in the cleft

of a tree, where the poor fellow remains for 12 long years, until Prospero comes to his =-Histance

ARIENZO, a town of Naples, province of Terra-di-Cavoro, on Mount Tifati, and is surrounded with orange and other fruit gardens. It has 7 churches. Pop. 11,000.

ARIES. I. A constellation, the Ram, is the

first constellation of the ancient zodiac. It is surrounded by Cetus, Taurus, Persens, Androneda, and Pisces. The Greek mythology conneets Aries with the golden fleece of the Arga-nauts. II. In ancient military science, the Latin name for a battering ram; so called because the end of the instrument which punched the walls of beleaguered cities was a bronze or iron made somewhat in the form of a The method of withdrawing the ram's head. aries, and butting it again against the wall, also

suggested the appellation.

ARIMASPIANS, a fabulous people of actiquity spoken of by Herodotus. They are described, among other things, as energed, and as countrymen of the dragons who kept watch over the gold, from whom, however, they marking the hor horsest and the country that the country the second statement of the second statement of the country that the c watch over the gold, from whom, however, they contrived to beg, borrow, or steal large quantities. They dwelt on the golden-sazded river Arimaspa. Of course the most remote and least known region was selected as their place of habitation. Some place them is Scythia, and others in Sarmatia. Modern commentators say that the gold mines of the Ural mountains gave rise to the fable.

ARINOS a river of Brazil unwines of Matter

ARINOS, a river of Brazil, province of Matter Grosso; rises in the Parecis mountains, flows

north-westerly, and empties into the Tapajea, an affluent of the Amazon. Length, 700 miles.

ARION, a famous musician of Lesbus, and a friend of Periander, king of Corinth. When returning home from Sicily, where he had amassed great riches, the sailors determined to throw him overboard and seize his treasures. Discovering the plot, he begged permission to play one melodious time before it was put in execution, and, having done so, threw himself into the sea. The dolphins, charmed by his into the sea. The dolphins, charmed by Lis music, carried him on their backs to Tsenarus, whence he passed over to Corinth, and on the arrival of the ship had the sailors put to death.
ARIOSTI, ATTITIO, an Italian composer,

born in Bologna in 1660, and educated f priesthood, which he forsook for the study of music. He wrote principally operas, which had a considerable reputation throughout Esrope in the beginning of the last century, gave instructions on the harpsichord to Har whose musical genius he was among the first to recognize and direct.

ARIOSTO, LUDOVICO, an Italian poet, born at Reggio Sept. 8, 1474, and died June 6, 1533. His father, a man of high birth, was a favorite and confidential agent of the dual house of Ferrara, and was governor of Reggie at the time of the poet's birth. He was not a provident father, and a large family, liberal disposition, and facility in obtaining requisite ARIOSTO 88

the present rather than secure independence for the future. Ludovico, therefore, the eldest of 10 children, was early aware of the necessity of labor; and, although he had given signs of promise by a juvenile dramatic composition and a Latin oration, he was forced to attempt the study of law. Five years of useless experi-ment at length obtained him a reprieve; and, just before reaching manhood, he had the pa-ternal sanction to devote himself to the Muses. He first object was to revive and enlarge his His first object was to revive and enlarge his classical knowledge; and, although Latin was then the language of scholars, so refined was then the language of scholars, so refined was his critical appreciation of Horace and Ovid, that he soon acquired fame as a Latinist. In his epistle to Bembo is a eulogy of Gregorio di Spoleto, one of the celebrated men of learning of that era; and this was an offering of grati-tude, for to the teaching of Gregorio the poet owed much of his skill in Latin verse. On the death of his father, the same filial obedience and sense of duty which led him, in boyhood, to study law against his inclination, at this sad crisis of his family fortunes, made him self-devoted, patient, assiduous, and careful; so that at 24 he was the guardian and support of his brothers and sisters. This domestic application occupied the greater part of 20 years, during which he acquired social distinction; which, however, appears to have been at first accorded to his acquisitions, wit, and character, rather than to any preëminence as a poet; at all events, his work in the latter vocation was originally of a casual and ephemeral kind—sonnets and elegies which scarcely foreshadowed his elaborate and original epic. He was at this period rate and original epic. He was at this period employed by that ambitious but exacting patron of men of letters, Cardinal Hippolito d'Este. It is an interesting and almost a unique pic-ture, in literary annals, which Ariosto now offers to the imagination;—the head of a large family, each sister to be well married and each brother to be ushered into some lucrative employment—all meantime dependent upon him-a courtier, obliged to be on the alert to grati his patron and conciliate "troops of friends," to gratify busy over his father's accounts, and now directing some household economy; this evening playing the agreeable in a palace and the next teaching his brother Latin; one month absent on an embassy to Rome and the next immersed in business correspondence; yet all the time unsing on his favorite theme, seizing from life and nature gleams of truth and fantasy where-with to enrich his verse, and ever and anon retiring to his birthplace; and there, in a kinsman's villa, in the lonely chamber of an old tower, constructing his wayward, dreamy, fan-tastic, yet beautiful and most attractive poem. There were adventurous episodes, however, in this life of the court, the family, and the scholar. He was sent by the duke of Ferrara on a conciliatory mission to Pope Julius II., who had long coveted that prince's domain and now sought it through religious pretexts. He

subsequently distinguished himself at the bat-tle of Ravenna, where the papal and Vene-tian forces were defeated; a second time he undertook an embassy to Rome, but he was badly received and savagely threatened, so that it became necessary for him to escape in disguise. Cardinal Hippolito desired the poet to attend him on a visit to his bishopric of Segovia in Hungary; and his refusal induced a permanent estrangement, notwithstanding the adula-tion lavished on him so unworthily in the Ariosto was now asthmatic, and, unfit to brave a northern climate; Orlando. many other objections, some of them not a little humorous, he cites by way of apology for not obeying the haughty cardinal. An expensive lawsuit added to the vexations attending his loss of patronage; but, upon Hippolito's death, he entered the service of his brother Alfonso, with whom he became a favorite companion: the duke allowed him to vorite companion; the duke allowed him to indulge his architectural fancy in building a house for himself in the centre of a garden; but, even with this luxury at command, he was vexed and hampered by precarious means and inadequate resources; he enjoyed certain ecclesiastical revenues and numerous costly gifts from the princes and churchmen of his time, as tributes of admiration or rewards for diplomatic tributes of admiration or rewards for diplomatic services, but even with the splendid hopes excited by Pope Leo's partiality, and with all the distinction and privileges he enjoyed, his experience only confirms the frail support proverbially realized for literature through princely patronage. Whenever opportunities presented themselves, Alfonso sent him on errands which often yielded him personal honor and emoluments. It was on one of these missions, in a dreary part of the Apennines, that his famous adventure with the robbers, so long traditional in Italy, occurred; they paid little respect to the envoy, but spared and honored the poet. According to Baretti, however, he was surprised by the banditti near his own abode, when, in a fit of abstraction, he walked into the forest in nightgown and slippers. The anecdote, at all events, aptly illustrates the firm hold his vers had taken upon the common heart. As life advanced, he declined offers of employment, and gradually withdrew from official life to the re-tirement congenial to his tastes. His last years were given to revising and enlarging the Or-lando and writing his satires; which, in fact, give the chief biographical data of his career, being filled with political, domestic, and per-sonal allusions; they are modelled upon Horace and written in the form of epistles to intimate friends; unfortunately their indecent and licentious passages seriously mar the legitimate rank they might otherwise hold as literary productions. At the close of 1532, the magnificent theatre which the duke of Ferrara caused to be built as an appropriate scene for his favorite poet's comedies, was destroyed by fire. The event is said to have greatly excited Ariosto; he was seized with illness, which his physicans

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ascribed to indigestion; and, a few months after, expired. During this fatal indisposition he put the last touches to his immortal poem. Thus left, it consisted of 46 cantos; the other on the consistence of the control of the order of the ord of its production and the circumstances under which it was written. It is an acknowledged distinction which Ariosto enjoys in common with only the father of Greek song, that the common people and the high-bred, the ignorant and the learned, equally delighted in his His fame differs essentially from that of Dante or Tasso; the one demanding a vig-orous mind and a refined perception for his appreciation, and the other a chivalric sympathy; whereas Ariosto captivated, at once, the frivolous and the earnest; and those without the least valorous aspiration keenly enjoyed his fanciful and vivacious strain. This universal popularity is owing to his subject and his style; the public of his day were prepared to receive the former, because Bojardo's Orlando Innumthe former, because Bojardo's treatmo innum-orato had opened the vein which is elaborately worked out by Ariosto. The associations, too, of knight-errantry were fresh and prevalent; his was an age of courtly splendor, of feats of arms, of trials of intellectual skill and of gal-lantry, when the accomplished man of the day could equally well handle a sword, improvise a could equally well name a sword, improvise a love song, and exercise political sagacity and social tact. Then to be brave, prompt, roman-tic, splendid in costume, graceful in manner, devoted to ladye-love and loyal to duke or pontiff, were the requirements of ambition. Hence the machinery of Ariosto's poem—the combats and the paladins, the lover's devotion and the mad adventures, were congenial to the general fancy; while the easy, nonchalant, animated, and graceful manner in which the narrative is en, had a singular charm. It was perfectly wrought, like a pastime to the writer, such is the apparent facility of its versification. This facile grace "beyond the reach of art" was a marked trait of the past's genius; another was his fertility and versatility of invention; and still another, the quick transitions of ideas and beauty of comparisons. These elements of popbeauty of comparisons. These elements of popularity we, of a later day, easily recognize; but, at the same time, cannot but find some of his descriptions tedions, and many of his canton unsustained throughout by the vivacity and genial flow of their first movement. His viola-tions of decency and the sacrifice of all elevation, either of style or sentiment, to clearne and distinct meaning, are perhaps inevitable adefects in such a work. The Orbindo Formso was first printed at Ferrara in 1516; the next 100 years was prolific in editions; and to-day a group on the mole at Naples listens with avoity to a reader of Ariosto; while the most popular of modern English pacts everted all his powers to reproduce in "Beppo" and "Don

Juan" the careless, gay, and magnetic melody of this popular bard. The principal ancient editions of the Orlando Furioso are those of Ferrara, 1516, 1524, and 1532, published under the superintendence of the author, and the Adias edition of 1545. The best modern edition is that of Morali, 4to, Milan, 1818, which follows the original text of 1532. Of the English translations by Harrington, Hoole, and Rose, the latter is esteemed the best.

latter is esteemed the best.

ARIOVISTUS, a chief of the Marcomanni, a German tribe, crossed the Rhine with 15,000 warriors at the call of the Sequani, who were oppressed by the Ædui, defeated the Ædui 72 B. C., but took one-third of the land of his allies for his Germans, and threatened to take more. He invited his countrymen over the Rhine, and made a settlement there of 120,000 strong. The Ædui and Sequani called in Julius Cæsar and the Romans to their aid. Cæsar ordered Ariovistus to make no more conquests, to call no more Germans over, and to give up the hostages he held of the Ganla. Ariovistus returned an insolent reply. Cæsar marched against him and compelled him to give battle near Vesontii, now Besançon, 58 B. C. He was defeated, and few of his warriors escaped. His German and his Helvetic wife, and his 2 daughters, fell into the hands of the Beimans. He himself escaped across the Rhine in a small boat, and ended his days in obscurity.

ARISMENDI, JUAN BAUUSTA, a distinguished Venezuelan general. When the Spanish general Morillo had besieged and subjugated Cæsar and head at the same and head of the same and head of the same and head of the same and head at the same and head of the same and head of

ARISMENDI, JUAN BAUTISTA, a distinguished Venezuelan general. When the Spanish general Morillo had besieged and subjugated Carthagena, and had at the same time rendered himself hateful to the Venezuelans by Lis confiscation of their property and other crueltian Arismendi, in conjunction with Bolivar and Paez, aroused the inhabitants to a fresh resistance, and defeated Morillo in several engagements. In 1819, Morillo being driven from New Granada and most of Venezuela, Arismendi was chosen vice-president of that republic. In the insurrection of Paez, in 1826, during the absence of Bolivar, Arismendi espoused the cause of the constitutional party, and was of material service to Bolivar in restoring the peace of the republic.

ARISPE, a Mexican town, situated in a fer-

ARISPE, a Mexican town, situated in a fertile valley of the river Sonora, at the foot of the Sierra Madre. It was formerly the capital of Sonora, but on becoming involved in the civil wars, which distracted that state in 1822, the seat of government was, in 1832, transferred to Ures. Arispe is celebrated for the rocks in its vicinity, which form 3 columnar masses of about 50 feet in height. The church is the only noteworthy building. Owing to the civil wars and the encroachments of hostile Indiana, the population, which once exceeded 5,000, and according to some authorities even 7,000, has dwindled down to 1,500. Mr. Bartlett, while at Arispe in the survey of the boundary between the United States and Mexico, attended mass, and reports that "he found the church filled almost exclusively with women. The

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was performed by a band, in which clar-predominated, and we recognized among ass several of our popular Ethiopian airs, a 'Dearest May.' The singing was perby 2 girls, who seemed to have perfect-mselves in the art under the tuition of unese. The altar is covered with mas-lates of embossed silver, and there is a ion of this metal display in the shape of fower vases, chandeliers, and censers." STA, MARIANO, a Mexican general, born state of San Luis Potosi, Mexico, July 02, died in Spain Aug. 9, 1855. His was a lieutenant-colonel in the Spanish his mother was also Spanish. His edumay be said to have been entirely military at the age of 11, in 1813, he was placed Spanish army as a cadet, and served till 1821, when he joined the cause of indence, and received the commission of 1st He distinguished himself throughne rest of the year (1821) in various secontested actions, and obtained for his the brevet of captain. In December, Sents Anna, then a general of brigade, ed against the emperor, Iturbide, at Vera The latter sent forces to suppress this , which were to operate under the orders a. Chávarri. Upon the arrival of these, however, Chávarri combined with Santa and a plan was formed among all the pal chiefs, Feb. 2, 1823, called El acta de Mata, which resulted in the overthrow of exican empire in the month of March fol-, and in the establishment of the federal Arista's name is first mentioned in the of Mexico in the year 1825, during the istration of Gen. Victoria. He was a capa the army, stood well with the governand was a prominent member of the politirty called the Yorkinos. This was a body rty called the Yorkinos. This was a body masons, so called, established in the city sinasons, so called, established in the city rice in that year for the purpose of counsancing the intrigues of the Scotch lodge sesses. In the fall of 1828, Gomez Pedraza lected president, and Gen. Guerrero, vicelent. Santa Anna, as soon as the result selection was known, early in September), declared against Pedraza and sustained ection of Guerrero. Arista adhered to the anse, joined Santa Anna, and remained at le while they were besieged at Oaxaca, the latter, with his forces, had been d to retire, which was until December of ove-mentioned year, when the successful of the revolt, called that of the Acordada, city of Mexico, finally placed Guerrero wer. Arista was promoted during the conth of Guerrero's administration (April, to the grade of lieutenant-colonel. While to the grade of lieutenant-colonel. Anna was sent against the Spaniards, mante, the vice-president, received the and of a reserve corps, and was ordered spa. Arista had a command in that corps. nante revolted, which caused the downfall errero in December, 1829, and he placed

himself in the presidential chair on the 80th of that same month. Bustamante had, till about that time, been a distinguished member of the Yorkinos, a friend of Guerrero and of the other principal men who composed that party, but he now abandoned all and established a central system of government. Arista served his adsystem of government. Arista served his administration faithfully, and was engaged in almost every action that took place, in consequence of the resistance to it, the principal one being the famous battle of the Gallinero, fought in October, 1832. During this administration, he was promoted to the full grade of colonel and to the brevet of general of brigade. Santa Appa rose egginst Bustamente, and by winter Anna rose against Bustamante, and, by virtue of a new election of both congress and president, was chosen for the latter post. He took his seat April 1, 1833. Upon the accession of Santa Anna, Arista was promoted to the full grade of general of brigade, and in the month of June (1833), he was second in command of the army. The acts of the new congress caused a revolt in Michoacan, in the month of May, in favor of religion and church privileges. This revolt was seconded at Chalco by Gabriel Duran, with the troops under his orders. Santa Anna took command of the army in person, and, accompanied by Arista as second, marched against this insurgent, when the latter retired in the direction of Cuernavaca, to the south of Mexico. During this person have a retired in the direction of the south of Mexico. Cuernavaca, to the south of Mexico. During this march, however, Arista, with the whole division, joined the movement of Duran, and proclaimed Santa Anna as dictator June 6. Duran and Santa Anna held a conference together, but the latter positively refused the proffered dictatorship, and, after having been detained a prisoner for 4 days, made his escape and returned to the city of Mexico. The plans of Duran and Arista, whatever they may have been were thus diswhatever they may have been, were thus disconcerted. Nevertheless, they advanced to the gates of the capital. On July 7, they made an assault, but were repulsed with loss, and, with diminished forces, retired toward the interior of the country, fortifying themselves at Guanajuato. Santa Anna followed, attacked them at that city, where they capitulated in October (1833). For this act Arista was deprived of his ank and expelled from the Mexican territory. He embarked for the United States in November of the same year. He was absent about a year and a half, when, upon an amnesty, he returned, June, 1835. By his letters written at that period, we see that he had resolved to abandon military and political life. But in August, 1836, being officially informed that, by virtue of a general decree of amnesty of May 2, 1835, he had been restored to his rank as brigadier-general, he resumed his position in the army, and in that month was appointed judge of the supreme tri-bunal of war, which office he held till April, 1837, when he received the thanks of govern-ment for his services. In June, 1837, he was named a member of the junta of the military code, and a little later, a member of the consult-ing council of war. In October of the same year, he was appointed inspector of the active

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militia, during which time he reorganized it, and caused it to be instructed, for which service he also received the thanks of the government. In September, 1838, he received the command of a brigade destined to operate against the invasion of the French at Vera On his way thither he received orders from Gen. Santa Anna, who commanded in chief, to hasten to that place in advance. He arrived there on the evening of Dec. 4, and on the morning of the 5th, was taken prisoner by the French. About 2 months later he was released on parole. In 1839, the command of a brigade destined against the revolt of Urrea at Tampico, was confided to him, and with only 1 ampice, was consider to him, and with only 400 men he caused that general, with a force of 1,200, to surrender. He was next appointed commander-general of Tamaulipas, and upon the close of that year, 1839, he was named general-in-chief of the northern division of the Upon his arrival at Monterey, he reorganized the forces, and, after various encounters with the insurgents of the eastern departments, defeated them at Santa Rita, and succeeded in pacifying all that frontier, for which a special cross of honor was awarded him. In the month of September, 1841, he was promoted to the rank of general-of-division by President Bustamante, which was afterward confirmed by Santa Anna notwithstanding other similar acts of Bustamante's government had been altogether set aside. In Kovember, 1841, he resigned this command, but was soon reappointed. He was next deprived of it by a revolution, but on the fall ganized the forces, and, after various encounprived of it by a revolution, but on the fall of Santa Anna, in December, 1844, he was again restored, and in a few days caused the govern-ment of Herrera, who succeeded Santa Anna, to be recognized throughout the eastern departments. Upon the breaking out of the war between Mexico and the United States, Arista made great efforts to put the eastern frontier in a respectable state of defence, and to increase his brigade to 6,000 men, but he was not sup-ported by the government; and upon the revolt of ten. Paredes (who made himself president), with the whole division of reserve at San Luis Potosi, Arista was displaced. Paredes, however, upon learning of the approach of the American army toward the Mexican frontier, reinstated him in that command April 4, 1846. He commanded at the battles of Palo Alto, and Resaca de Guerrero. The trial which he had solicited, after the less of these two battles, was commenced but was delayed dering the rest of the war of 1846 and 47, in which he did not serve. It was taken up, however, in May, 1850, when the court decided with it behalf complied, in the defence of his country in the battles of May, 1846, with what was demailed by his conseque, his honor, and his obligations." In June, 1848, he was appointed by President Her-rera, minister of war. Upon his accession to this important post, his attention was at once directed toward putting all belonging to that department, which, from the late war and other

causes had become greatly deranged, into a proper state. He caused all the artillery to be proper state. He caused all the artinery so repaired and renewed; the useless pieces from the different parts of the republic were brought. A train of 29 pieces. to the capital and recast. A train of 29 pieces had been made in 1850 for the capital, where none existed when he came into office. A new foundery for cannon was established, with all the necessary apparatus. The arsenals were put in order, and factories for the repairing of arms established. Under the auspices of the department, the geographical and statistical society, ment, the geographical and statistical society, among other important works, prepared a large map of the republic. The geographical section of the department also prepared a general atlas of the republic, and plans of the ports. The invalids of the army were provided for by placing them in service in the garrison of Mexico. He had have charished the wish to activities. He had long cherished the wish to establish military and agricultural colonies on the Meximintary and agricultural colonies on the Mexican frontiers, and now executed this plan on the borders of the states of Tamaulipas, Coahaia, Chihuahua, Sonora, and Lower California, and in various parts of the interior known as the Sierra Gorda. To each colony an ample grant of land was made, which was parcelled out among the colonists, who were furnished, be side with agricultural incoloniate, by the constitution of the colonists. among the colonists, who were furnished beside, with agricultural implements by the government. The colonies were free to be settled
by others than soldiers, and these settlers enjoyed all the civil rights of colonists in general
being exempt from taxes of every kind, even
from church dues. Enlistment for malazy
service in them was voluntary. As long as
Arista remained in power, they throve, but are
now in an advanced stage of decay. One of
them bore his name.—Gen. Arista displayed
activity and good judgment while minister of
war, and these qualities were frequently exercised both in the councils of state and in the
management of his own department, the result
of which was the successful suppression of it
revolts that occurred at different periods durring those 2 years. In the fall of 1850, he
was elected president of the Mexican republic,
and on Jan. 15, 1851, he entered upon the datas and on Jan. 15, 1851, he entered upon the dutie of his office, supported by the majority and the collightened portion of the inhabitants, but, nevertheless, amidst the murmurs of personal and political enemies. The principal difficulty to be ertheless, ainded the murmurs of persolan and political enemies. The principal difficulty to be settled was the absolute want of money. The amount of the indemnity becoming due from the United States, had been already disputed of, by the law of 1849, for the regulation of the public debt. The finances were in a state of confusion, and the estimate showed a deficit of over \$4,000,000. Every source of revenue had been forced to the highest pitch, and the outlay over \$4,000,000, greatly reduced. An increase of revenue was therefore, necessary, and the first care of the administration was to recommend measure obtain a fixed and steady income. One of the greatest desires of Arista was to comply with the law of 1849, with respect to the public debt, yet he felt the impossibility of doing so under the existing circumstances. The ordinary

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come the object of the most violent attacks from

of the congress of 1851 closed without of the congress of 1851 closed without gany thing. The two chambers continuagreed, the senate manifesting, if not a hostility, at least an open distrust and ion to the government, while the chamdeputies sustained it. A special sessheld in April, 1851, when a bill was ad by the department of finance, grantiain powers to the government for the of obtaining a revenue until July, 1852. Il was agreed to by the chamber of depute rejected by the senate. This session t rejected by the senate. This session d solely for the purpose of providing for the government, but, although it so days, nothing was done. An extra ras called on June 1, and as the necesthe government were pressing, \$250,-conth was granted it from the American ity, which had been reserved to the pubity, which had been reserved to the publicors. The expenses of the government sated to be \$10,997,384, and the revei000,000, consequently there was a de-13,997,384. Certain other measures were oposed by the government, by means of it was stated, this deficit would be covernment, and the stated of the sate ad an annual surplus obtained of \$142. he states protested against the same, and ther was dropped. Up to the middle of 151, as the congress had done nothing in y of producing a revenue, and had red by the government for this object, the alled upon the governors of the states to some plan to congress for this purpose. vernors met in the capital on Ang. 20, if to add to the perplexing situation of arnment reported that, instead of a large they had found that a surplus existed, in truth, there was not the necessary the most ordinary daily expenses of ninistration. The ministers of finance ninistration. The ministers of mance war resigned, the former declaring that ement of the financial condition y correct and true. Revolts and other i disturbances now became frequent. ministers protested against the treat-f their fellow-citizens. The circumof the government were, however, into consideration, and a new arrangemade with the creditors in December, During the latter part of that year, a revolt took place in Tamaulipas. The r of that state, in order to oppose vement, the object of which was smugok the responsibility to establish a new aced tariff. It was not recognized by srnment, and caused trouble by reason inued protests of merchants and recla-of foreign ministers. The government ed on all sides for the want of means, to suspend, almost entirely, the payment nterest of the public debt, and even to d a part of the salaries of its employees. the year 1851, various insurrections sut, but they rapidly increased in 1852. the middle of this year, Arista had be-

the press. In July, 1852, a faction rose at Guadalajara, and took possession of that city, having a population of nearly 80,000 inhabitanta. The legal authorities fied. The ecclesiastical bodies, with the bishop of the state, with various cor porations of the same, soon made their submission to what was called the provisional government, proclaimed there. In August, a revolt took place also at Mazatlan, while another was going on at Jalapa. In September, Santa A was publicly proclaimed at Guadalajara, and his partisans rushed thither and swelled the numbers of the revolutionists. Congress was called Congress was called for an extra session, and the governors of the states were also called upon to cooperate with the government in suppressing the revolution. The majority of them promised to do so, but they soon relapsed into apathy, and nothing was done on their part, and even the congress closed without giving the requisite aid. The ordinary session of the congress opened Jan. 1, 1853. The president, upon the occasion, earnestly endeavored to call its whole attention to the prevailing situation, but that body was irresolute or careless; it hesitated while the revoluinte or careless; it hesitated while the revolu-tion rapidly increased, and, finally, seeing that the congress did not act, the constitution giving him no authority to adopt the measures sug-gested to his own mind, and that his endeavors under it were of no avail, on Jan. 5, 1853, Arista delivered the government, as prescribed by the constitution in case of resignation of the presi-dent into the hands of the presiding judge of constitution in case of resignation of the president, into the hands of the presiding judge of the supreme court. Arista now retired to his farm in the Llanos de Apam, determined to spend the rest of his days far removed from public life. But his presence was annoying to his enemies, and, though sick in body and at heart, he was banished from the country. He made a voyage to Europe. While on a visit to Spain his illness increased. He set out for France, and died on his way thither at the age of 53, on the same day that Santa Anna, who of 53, on the same day that Santa Anna, who had usurped his seat, fled from the city of His heart was carried to Mexico, ac cording to his own request. The government of Alvarez, in 1857, ordered that the rest of his remains should be brought home at the public expense, and in memory of his services declared him by a special decree, ratified by the con-stituent congress, to have "merited well of his country," the highest honor the Mexican nation can confer either upon the living or the dead. His bravery was acknowledged. He was a man of strong passions, sanguine in his temperament, as sensitive as a woman, and with a heart as kind. He wrote much, expressed his heart as kind. He wrote much, expressed his thoughts and ideas with clearness and vigor, and in a style remarkably concise. He loved agricultural pursuits, and owned an estate, in former years, near Monterey, in the cultivation of which he took much pride. He disposed of that in later life, and purchased one in the Llanos de Apam, to which he dedicated much of his attention. He sought after all kinds of useful improvements in agriculture, and when expelled from Mexico, in 1833, he paid particular attention to the improvements made in agricultural implements in the United States, and on returning to his country, he introduced many of them on his own estate. He was married, but had no children. He accumulated no fortune, and though he owned a valuable farm, he was aided in its purchase by loans from friends. His estate is now under liquidation, and it is found that after all debts are paid, nothing of moment will remain

ARIST.EUS, the son of Apollo, married the daughter of Cadmus, and became the father of Actioon. He fell in love with Eurydice, the wife of Orpheus, whom he pursued into the fields, where she was bitten by a serpent. For this he incurred the anger of the gods, He taught men the culture of the olive and the management of bees, for which service he was

placed among the stars.

ARISTARCHUS, I. The greatest philologist and critic of antiquity, born in Samothrace, was educated at Alexandria by Aristophanes of Byzantium. He flourished in the reign of Ptolemy Ph. Jopator, 150 B. C., and his immediate successors. He was the founder of a grammatical and critical school, which long flourished at Alexandria, Rome, and elsewhere. The num-ber of pupils educated by him was such that Alexandria and Rome alone contained at one time no less than 40 celebrated phil logists who time no less than 40 referrated pm. ogists who had been brought up in his accordy. He was also the preceptor of Ptolemy Epiphanes and Ptolemy Physican. In his old age he left Egypt and went to Cyprus in consequence left figypt and went to Cyprus in consequence of the injustice he had experienced at the hands of Physicon. There, being afflicted with the dropsy and weary with suffering, he put an end to his life by voluntary starvation in the 72d year of his age. He is frequently called by ancient authors the "prince of grammarians." Criticism, in the widest sense of that term, as understood in antiquity, was the great business of his life. To purge the text of each of the great posts of Greece from the interpolations and corruptions which had crept into it, to il-lustrate its obscurities, to draw attention to its beauties and perfections, this was the task to which his great abilities and acquirements were devoted. But it was on the text of Homer that he especially delighted to meditate and labor, and such was the extraordinary acumen displayed by him in surmising its true readings, and detecting its spurious ones, that Panetius, the Store, pronounced him a "diviner," and the the Stoic, problems of firm a "diviner," and the greatest modern critics as pre- at nothing more than bringing back the text of the post to that state of purity in which Arstandass left it. Aristandass is said to have written Soot commentaries, but nothing of all his writings remain save those scattered union noted trig-ments with the scholasts have preserved. II. Of Stood flourished about 400 B. C., and was one of the first who held that the earth revolves around the sun, for which opinion

some thought him guilty of impiety. The only work of his extant, is a treatise on the distance and magnitude of the sun and moon, of which a French translation was published in 1-10.

ARISTIDES, I. An Athenian, the son of Lysi machus and a contemporary of Themist clea-In early childhood he exhibited calumess resolution, and a contempt of every thing di-honor-able. His admiration of the institutes of Lycurgus gave his opinions a bias in favor of chgarchy. Themistocles, on the contrary, belonged to the democratic party. Hence, between these two distinguished men existed a life-long opposition on all measures of public policy, tides is said to have remarked on one of that the Athenian commonwealth would never prosper until both were thrown into prison.— At Marathon Aristides was second in command. and set the example of resigning his day of command in favor of Miltiades. Being left in charge of the Persian camp, he maintained his integrity by bringing all the spoils to the pub-lic treasury. Soon after, by the intrigues of his rival Themistocles, he was ostracized on the pretext that he was acquiring an influence dan gerous in a democracy. He employed the years of his exile in endeavoring to stir up the Grecian cities to resist the Persians, at that time preparing for a second invasion. He sought an preparing for a second invasion. He sought an interview with Themistocles before the battle of Salamis, concerted with him the plan of that engagement, and gave him his hearty sup-port. The success of the Greeks at Plates was port. chiefly owing to his courage and watchfulnes.

A disagreement of the allies concerning the honor of that day having been referred to him for decision, he surrendered the claim of his countrymen in favor of the Pintaeans, and persunded the Lucedemonians to follow his example. The Persian war continuing, he, with Cimon, the son of Miltindes, was sent at the head of the Athenian forces to join the confederate army. The mildness and urbanity of his deportment, contrasted with the arrogance of the Spartan commander Pausanias, so charmed the rest of the allies that a confederation of the Ionian states was formed under the Logernory of Athens. The Greeks had so high an opinion of Athens. of Athens. The Greeks and so high an opinion of his integrity, that he was appointed to assess the expenses of the war on the several states—a commission which he executed to the satisfaction of all. When Themistocles fell under suspicion he did not join in the presention; and after the banishment of his rival he always spoke of him with admiration and respect. Aristides died 468 B. C., not leaving the means of defraying his funeral expenses. He was buried at the public cost; his daughters received dowries out of the public treasury, and a landed estate was bestowed on his sa. So conspicuous was the purity and rectitude of his character, that in his lifetime he was called "the Just." When a verse of Eschylus was first uttered in the theatre, describing in vigorous terms the character of an honest man every eye is said to have turned involuntarily

When Themistocles stated in the by that he had devised a measure of great advantage to the state, but of such a nature that it could not be made public, he was directed to disclose it to Aristides. It was a proposition to secure the naval supremacy of Athens by burning the ships of her allies. Aristides reported to the people that nothing could tides reported to the people that nothing could be more advantageous, and, at the same time, more unjust; and the proposition was not entertained. His exploits were less brilliant than those of Themistooles. He did not destroy great fleets, nor display that military genius on land, which first disclosed an art of war. But his virtues have secured for him as wide and a purer fame. II. P. ÆLIUS, a Greek rhetorician, born at Hadrianopolis, in Bithynia, A. D. 117 or 129, died A. D. 189. He was the son of Eudsmon, a priest of Zeus, and applied himself with unrivalled zeal, under various teachers, to the study of eloquence and plied himself with unrivaled zeal, under various teachers, to the study of eloquence and poetry. He left admirers of his talents in every place where he studied, and several town raised statues in his honor, one of which, representing him in a sitting attitude, was discovered in the lath century and is now contained. ered in the 16th century, and is now contained in the museum of the Vatican. After travelling through the countries which border the Mediterranean, he took up his abode at Smyrna, and his countrymen, in their enthusiasm, likened him to Demosthenes. He was an associate likened him to Demosthenes. He was an associate and admirer of Marcus Aurelius, and when in 178 Smyrna was almost wholly destroyed by an earthquake, he addressed to that emperor a letter describing the catastrophe, and picturing the misfortunes of the inhabitants. The emperor assisted in rebuilding the city, and the Smyrnmans testified their gratitude to Aristides by naming him the founder of the town, and raising to him a bronze statue in the agora. He held, until his death, the title of priest of Æsculapius. Fifty-five of his orations and declamations have been preserved, consistand declamations have been preserved, consisting of eulogies on various divinities, panegyrics on towns, and treatises on rhetorical topics. They are marked by the excessive brilliancy and stateliness of style which distinguished the rhetoricians of his age, but Aristides far sur-passed most of his contemporaries in vigor of thought, and his study of the ancients saved him from the poor witticisms and shallow him from the poor witticisms and shallow plays upon words with which many of his aspasys upon words with which many of his associates sought to produce a momentary effect. Six of his pieces, entitled the "Sacred Discourses," are interesting, in connection with the history of animal magnetism. They describe a singular malady, not unlike somnambulism, and the cures of it wrought by the counsels of the god Æsculapius. The disciples of modern mesmerism find in the descriptions by Assistides something similar to the leter tions by Aristides something similar to the later mesmeric phenomena. His works also contain valuable illustrations of history and antiquities, and many fragments from other works now lost. The latest and best complete edition of them is that of Dindorf, in 8 volumes, Leipsic,

1829. III. Of Theres, a Greek painter, flourished from about 360 to 830 B. O. He is said by Pliny to have been a little older than his contemporary, Apelles, and to have been the first who knew how to express upon the counternance the passions and movements of the soul. The most celebrated of his paintings represented a mother mortally wounded in the bosom, and fearing lest her child, if she gave it suck, should draw blood instead of milk. This picture was so much admired by Alexander that he removed it to his capital. He painted a battle between the Greeks and Persians, which contained more than 100 figures, and at the time of the Roman conquest, the consul Muminus, discovering the high price set upon it, and wholly ignorant of the value of a masterpiece, seized it as a talisman, and sent it to Rome. It was placed in the temple of Ceres, and was the first foreign painting exposed to the view of the yet rude Romans. Aristides was also famous for his pictures of Grecian heters, and is said to have invented encaustic painting in wax, afterward carried to perfection by Praxiteles.

ARISTIPPUS, a native of Cyrene, whence his philosophy was called Cyrenaic, and the disciple of Socrates, flourished 880 B. O. His mode of life differed greatly from that of his master, for he was luxurious, sensual, and avaricious. The numerous anecdotes of him, however, do not represent him so much the slave of his passions as one who prided himself on extracting pleasure from prosperity and adversity alike. When reproached for his love of bodily indulgence, he said that the shame consisted, not in the encouragement of it, but in not being able to give it up. His conversation was rendered agreeable by continued flashes of wit. Dionysius having asked him how it happened that the philosophers were always besieging the doors of the great, whereas the great never went to the philosophers, he answered, "Because doors of the the physicians usually go to the sick." Being rallied on his intercourse with the wanton Lais, rallied on his intercourse with the wanton Lais, he said, "It is true that I possess her, but she possesses not me." One bragging that he had read a great deal, Aristippus told him that it was no sign of health to eat more than one can digest. Dionysius having assigned him the lowest place at table he said, "You wish to dignify the seat." Under the most bitter in the end represedes he maintained perfect imsults and reproaches he maintained perfect im-perturbability of temper. He is said to have incurred the dislike of Plato and Xenophon, who accordingly, in their works, speak of him slight-ingly. His doctrine was reduced to a system by his grandson, Aristippus the younger. The Cyrenaic philosophy pronounces pleasure the chief good, and pain the chief evil,—the former a moderate, the latter a violent motion of the soul. Pleasures differ only in their degree of purity. Actions are to be judged good or bad by their results; and in forming a judgment the only authorities are law and custom. Whatever conduces to pleasure is accounted

virtue; but virtue is regarded as a quality of mind rather than of the body, since bodily pleasure is valued for the sake of the mental state produced by it. This system in some respects anticipated the philosophy of Locke and Hame; for its advocates held that the senses are the only avenues of knowledge. At the same time they asserted, that a subject becomes cognizant of objects only through the media of impressions, that the only existences are states of mind, and that man is the measure of all things,—doctrines not unlike some of the doc-

of fining, and that man is the measure of authings,—doctrines not unlike some of the doctrines of modern idealism.

ARISTORULUS. I. An Alexandrian Jew, who lived in the 2d century, possessed some knowledge of the Aristotelian philosophy, but made the Mosaic law his chief study. In his commentaries upon the Pentateuch, composed in the parest Greek, he undertook to prove that the Greeian poets, historians, and philosophers, were acquainted with the sacred writings, and in the habit of horrowing largely from them. In support of this theory, he forged numerous passages, estensibly from profane authors, with such art as to deceive Greek writers and some of the fathers of the church. H. An officer of Alexander's army, who at the age of 84 years, wrote a history of all his campaigns, which Arrian took for his guide in editing the Anabasis. Platarch, Lucian, and Athenaus, praise his necessary.

Aritasis. Platarch, Lucian, and Athenious, praise his neutracy.

ARIS FOCKACY (Gr. aparosparea, the rule of the best). In the higher philosophic conception, the government of society by the best amounts almost to an ideal toward which humanity has aspired from its cradle. But, as a positive fact, arctorracy is the rule of the comparatively few over the many; and even if originally animated by the noblest purpose, it appears in history, algorithms, the setablished by the founders of communities, cities, and states. Having gained power over the subshield and compared mass of men, or over these who have voluntarily gathered around them, they considered by those under their control, they considered by those under their control. Their superior mental or physical ability, redieved passed, is believed to be transmitted by blood, and the state power of the father is maintained in his descend atts by costom, use, or force. And to ray reaches back almost to the first formal, and the state and father is an analysis of exact with toyalty, and not intrinsally a species to the rule, having had not intrinsally a species of the rule, having had not intrinsally a species of the rule, having had nearistocracy than the Mantehov conguest. The Porsans, althory are the total rule, having had nearistocracy than the Mantehov conguest. The Porsans, althory are the track aristocracy were wont to account to the arrivage to the gods, demi gods, and a correspondent and track and reagons tradi-

tion surrounded with public reverence, and to their companions who had shared their labora and assisted them in raising cities and states. As a matter of fact, these persons were very probably the Dardans and Hellens, who conquered and organized the aboriginal inhabitants of Greece.-The Roman patricians were deor creece.—The Roman patricians were descended from the roving predatory associates of Romulus, that is, historically speaking, from the first founders of the city, who alone formed the Roman body politic, and enjoyed the rights of citizenship. At first they shared power with the kings, but on the expulsion of the latter, monopolized it for themselves. The aristographs of all nations against as ===12. istocracies of all nations, ancient as well as modern, have always boasted of the purity of their blood, and to maintain it have all but aristocratic intermarriages. Thus it was in Greece; and the Roman patricians had a special rite to consecrate the union of partic of pure lineage. Among the ancients, aristoc racy was likewise based on the proprietorship of land to which, along with general civil rights, special privileges were attached. The policy of sovereign aristocracies has generally been authorized and controlled by the control erally been ambitious and conquering; th domestic rule, when not contested by other classes of the population, often equitable, and not worse than that of royalty. But they have ever been most jealous in preserving sovereignty for themselves. They have defined at it to the attention of the lateral to the structure of fended it to the utmost, not hesitating at murder, eruelty, and civil war, when necessary for that purpose. The struggles of arists cracy for that purpose. The struggles of aristocracy for power, form the most prominent feature in the history of the Greek republics, and above all of Athens, and the Thelams. The same is true of the republic of Rome. Aristocratic families sevired among the George to cratic families existed among the Germans pre-vious to their irruption into the Roman world, and among the Scandinavians. The Gotta and among the Scandinavians. The Godas while yet heathens, and confined to the country of the Danube, had a civil and sacerdotal aristocracy, with considerable political power, under their kings. History calls this aristocracy pilefori, or those who kept their heats covered at sacrifices and in the presence of the monarch. This aristocracy was continued in Spain after its conquest by the Visigotha from it the Spanish grandees derive th privilege of remaining covered in the presence of royalty. When the various German tribes of royalty. When the various German tribes conquered the Roman world, and established their dominion over it, giving a feudal esganization to society, aristocracy obtained a firm basis in the soil. The feudal aristocracy, with extensive political power, became superior to the rest of the conquerors, and even to the mass of the nobility, who were originally issequals. This aristocracy became distinct by its powers and privileges, which were expressed in its tyles. in its titles, as dukes, marquises, counts, barons. It was early established among all the terman tribes, as the Angles Franks, Lombards, and Saxons, out of and within tiermany, and soon raised itself above the body of the nobility, in the whole of feudal Europe. To some extent it preserved its rights, even after the overthrow of feudality, and the establishment of absolute royal power. It was in England, however, that the feudal aristocracy reached the highest and most complete development as a strongly cemented body, with predominant political power and influence. In that kingdom, in fact, it became the only form of nobility, whereas, all over the continent, the nobility preserved its existence along with the fendal and political aristocracy. Out of the political organization of the English aristocracy was finally evolved the constitutional system of government. Among the sovereign aristocracies of the Christian era, the most eminent for the wisdom of their rule were those of the republics of Venice and Berne in Switzerland, of which the latter was highly admired by Montesquieu. The great French revolution gave the death-blow to aristocracy as a conception, power, or fact. Absolute royal governments, although propped up by aristocracies, have likewise incessantly endeavored to reduce them to insignificance. At the present day, hereditary aristocracy is on the wane all over the world. Even in England, it has lost force as an idea, while almost everywhere else it is deprived of its ancient preponderance. The most absolute contrast to hereditary aristocracy is democracy. The principal political difference between the two now consists in the one being founded on rights of property, the other on personal rights. Modern times have produced a kind of sham aristocracy, which derives its standing not from birth, power, higher mental qualifications, or real political influence, but from wealth, and the date of its acquisition. This mock aristocracy is a weed which springs up especially in large commercial communities, and in new republics.

and in new republics.

ARISTOGITON, an Athenian, commonly reckoned among the martyrs of liberty. He had conceived a shameful passion for Harmodius, a beautiful youth, in which Hipparchus, one of the Pisistratide, was his rival. Stung by jealousy, in conjunction with Harmodius and others, he formed a conspiracy to destroy the tyrant, during the Panathenaic festival, at which the conspirators were present, with their swords concealed in garlands of myrtle. The plot succeeded; but Harmodius was slain by the guards, and Aristogiton secured 514 B. C. When subjected to torture by Hippias, the brother of Hipparchus, he named as his accomplices the best friends of the tyrant, who were immediately put to death. Three years after, on the expulsion of Hippias, the Athenians, from motives of policy, paid distinguished honors to Harmodius and Aristogiton, erecting statues and singing hymns to their memory, and decreeing that no slave should bear their names. To the mistress of Harmodius who refused to disclose the names of the conspirators, was erected a tongueless statue, to commemorate the victory gained by a woman over her love of talking.

ARISTOMENES, a Messenian, under whose lead his countrymen unsuccessfully strove to shake off the Spartan yoke 682 B. C. The 1st of 8 battles, which were fought in 8 successive years, was indecisive, the 2d a signal victory by the Messenians, the 3d an equally signal defeat, through the treachery of the king of Arcadia. In the course of the war Aristomenes surprised fortified towns in the heart of Lacedæmon, and one night hung his shield in the temple of Athene, in Sparta itself. Three times he offered to Zeus the *Hekatomphonia*—the sacrifice of one who had slain with his own hands 100 enemies in battle. Two of the 3 times that he was taken prisoner, he escaped before reaching Sparta; the 8d time he was thrown with 50 of his companions into the Keadas—a chasm in Sparta, used for the punishment of malefactors. The others were killed by the fall; Aristomenes waited until the 3d day, when, espying a fox among the dead bodies, he seized him by the tail, and followed him to his place of exit, which he enlarged sufficiently to creep out himself. To the surprise of all, he appeared at Ira, a fortified mountain, where the whole Messenian force was concentrated. After holding out for 11 years, Ira was betrayed, but its defenders forced their way out and took refuge in various parts of Greece. Aristomenes went to Rhodes,

where he died.

ARISTOPHANES, the great comic writer of classic antiquity. It is singular that a man of such celebrity, living in a period of Greek history than which none is better known nor more distinctly historical, a contemporary of all the great men of Athens, with whose deeds, whose fame, whose writings, and almost whose persons we are most familiar, as Sophocles, Euripides, Alcibiades, Cleon, Thucydides, and Socrates, should have transmitted to us so few memorials—and those so doubtful—of his distinguished career. It is not even certainly known of what country he was a native, where he was born, or where he died. That he was an Athenian citizen is clear, but whether native or naturalized remains in doubt, although it seems most probable that he was the son of one Philippus, an inhabitant of Ægina, and that, therefore, he was, only by adoption, a citizen of Athens. The date of his birth has been fixed, by approximation, at 460 B. C., and that of his death at 380 B. C., which would assume him to have lived to the age of 80 years. At a very early date of his dramatic career Aristophanes seems to have turned his attention to politics, and to have directed all his efforts of satire and pleasantry to the local and political occurrences of the day; for his second recorded drama, the "Babylonians," was aimed against the demagogue Cleon, as was also his Equites, in a far greater and more virulent degree; and that, too, at a time when his extraordinary and unwarranted success at Sphacteria had gained him such popularity with the mob that to attack him at all was a matter not to be thought of without danger. Danger, however, did not deter

the comic poet from doing as he had promised to do, when, in the "Acharmans," he pledged him-self at some time or other to "cut him into sole-leather;" for when no actor could be found to undertake the perilous office of representing the insolent demagogue, and no artist dared model a mask of his features, the poet himself proceeded to play the part, and appeared in the character, with his face besmeared with the dregs of wine, as had been the wont of the first rude actors, in the days of Thespis. Of the comedies of Aristophanes it is excessively difficult for a modern reader to form any thing ap-receasing to an accurate judgment. His wit is proaching to an accurate judgment. expended on topics and involved in allusions to events so purely local, locally political and ephemoral, that it requires the closest acquaintance with the occurrences and characters of the day, the temper of the people, and the every-day circumstances of Athenian life, to enable a person to appreciate and understand, much more to enjoy his wit or humor. Indeed, his very wit is so inextricably mixed up and interwoven is so inextricably mixed up and interwoven with buffornery, coarseness, and positive filth, that it is difficult, if not impossible, for a person at the present day, of refined tastes and decent manners, to find any thing, apart from the purity of the style, the dexterity displayed in the management of the language, "in all its shades of difference," as Professor Anthon has well expressed it, "from the most familiar dialogue to the latest distance of difference," which the lofty flights of dithyrambic song," whi will not disgust, rather than amuse him. must be remembered, however, that what we now call elegance, decency, and delicacy, were things atterly unknown and incomprehensible trangs acterry unknown and incomprehensible to the ancients, whether of Greece or Rome—that the toulest things were habitually spoken of in public, by their broadest, plainest, and coarsest cames, without hesitation on the part of the speaker or disapprobation on that of the heaves. The analysis of the theorem. The audiences at the theatres were men only, for women among the ancient Greeks had little more personal freedom than they now have among the Turks, and were restricted as closely to the gynorecom as are the ladies of the East to the limits of a Moslem harem. This restraint, therefore, if in those days it would therefore a restraint, which may be doubted, was not fell either by the comic writer or the come actor, holding him back from flights of grossness reallownery, which, while delighting the grownile gs, would be sure to make the judicio as racco af there were those then frequent-ers of the performances of the Attic drama who would be called, in that sense, judicious. Nor was it only that the audiences of Athens were entirely composed of men, but that they were composed of all the men of all classes; that they were achiences made up of that very same fleroe democracy who banished Aristides and murbical Sociates and Phoenon, whose aplaces he had to win, and whose attention to fix it is terest in the subjects which he de-size I to impress on them, by something akin to their natures, and congenial to their tempers

and temperaments. He certainly cannot be said to have pandered to the evil tastes and de praved inclinations of the people, even though he did condescend to catch their laughter by obscenity, buffoonery, and coarse, immoral jest-ing; for the boldness with which he lasted their political vices, held up the mirror display-ing their own rank corruptions to their very faces, and pulled down and broke to pieces their favorite idols, refutes the charge of his flatter-ing their prejudices or stimulating their persions in order to gain their voices. It is more probable that, living in a coarse age, his own mind actually partook of the coarseness which was a part of its nature; as it was a part of that of one whom he not a little resembles, the great atirist of the vices of the middle ages, the Free Rabelais. For the most part, the men who he most severely lashes are the very same-sophists, demagogues, and corrupt politicians-whom Thucydides condemns as the most destructive enemies of the state and misleaders of the people; and, in general, the things which he holds up to ridicule or reproach are things worthy of condemnation, on every score of morality and reason, such as the insolent ignorance and self-arrogating impudence of the best and cowardly Cleon; the scarcely concealed im piety of the misogynist and atheist, Europides; the shallow impertinences, casuistry, and irreligion of the sophists; and last, not least, the corrupt juri-prudence of the people itself, who listened with singular forbearance and goodtemper to his violent distribes and pungent seires on their own proceedings, and the manner of their own lives. The matter which has been the most severely charged against Aristophas is his bringing Socrates prominently torward as a subject of ridicule in his comedy of the "Clouds," a play especially directed against the sophists, of whom he erroneously, if not with ustentional falsehood, represents that philosoph as the head and leader. It has been asserted that this introduction of the philosopher to the cor-rupt Athenian audience, in a ridiculous charac-ter, and as a subject for scorn and loud laughter. was intended as a direct measure for him into popular di-repute and disfavor, pre liminary to procuring his accusation and con-bassing his judicial murder. Not, however, to passing his judicial murder. Not, however, to dwell on the other obvious inducements which would prompt a comic poet of no very nice p ceptions or delicate feelings of propriety bring upon the stage a celebrity and notors so generally known as Socrates—known, too must be said, for his ludicrous and grotes -known, too, # ugliness of person, for his singular fits of sence and distraction, and for certain qu vulgarities, closely bordering on affectation and charlatanry, and, if not actually such, at least the consequences and symptoms of a singul eccentricity—this accusation and the deliberacharge that he was acting in collusion with Melitus, the future accuser of the philosopher, ar at once disposed of by the mention of a single fact, that 22 years clapsed between the repre-

sentation of the "Clouds" and the trial, con-demnation, and execution of "Athens' best and wisest." It is also evident that Socrates did not regard Aristophanes either as his enemy or as a dangerous and disreputable character, it is on record that he often met the the clouds in a basket, on terms of friendship, upon social and festive occasions; and, still more markedly, since Plato, the pupil, admirer, follower, and posthumous eulogist of the murdered sage, speaks of Aristophanes in terms of the highest praise, declaring "the Graces to have selected his mind as their constant habitation," habitually reading his works, and, above all, recommending to the elder Dionysius, as worthy of his perusal and study, with a view to "learning to know the state of Athens," this very play of the "Clouds," which is pretended ave been the first move in the conspiracy against the master of the poet's eulogist. Nor is this testimony of Plato's conclusive only in relation to the charge against the comedian as an accessory to the ruin of the philosopher, but, taken in connection with the familiarity of Soc rates, goes far to show the real nature of his alleged coarseness and buffoonery, and the light in which they were regarded by the first men of the day and the country. They were, in a word, either regarded as legitimate means for word, either regarded as legitimate means for producing ends consonant to patriotism, reason, and true morality, or, what is far more probable, they were not looked upon as vulgarity, buffoonery, and filth at all, in that corrupt and obscenely thinking and speaking age, but as somewhat broad and free-spoken wit and humor, just as words written or spoken in the court of King Charles II. would have elicited general explanate from the courtiers, the atternace of ral applause from the courtiers, the utterance of which would now consign the utterer to life-long banishment from the society of decent people. Aristophanes was an industrious and people. Aristophanes was an industrious and voluminous composer, having published above 60 comedies, and gained many prizes. Eleven of his comedies are still extant: "The Acharnians," "The Knights," "The Clouds," "The Waspa," "The Peace," "The Birds," "The Women celebrating the Festival of Ceres," "The Lysistrata," "The Frogs," "The Females met in Assembly," and "The Plutus"—the last, a middle comedy, as it is termed by the grammarians, attacking general, rather than peculiar, marians, attacking general, rather than peculiar, vice, without the introduction of real characters or of much direct personality. The purity of the style of Aristophanes is, it may be said of the style of Aristophanes is, it may be said with too much justice, the only thing that is pure about his works; still they cannot be dis-pensed with by the student of Greek letters, since probably from no other existing sources can he learn so much of the domestic life, the social manners, the working of the polity, and the general tone of thought in Athens, as from these somewhat more than ribald compositions, the wit of which will hardly charm the modern reader. The best editions of Aristophanes are that of Kuster, that of Brunck, and that of In-

vernizzi, continued by Beck and Dindorf, beside some editions of separate plays of rare excellence by Mitchell, who has also ably translated some of the number, and by Prof. Felton of Harvard university.

Harvard university.

ARISTOTLE, perhaps the greatest philosopher of ancient times, born 884 B. C., at Stagira, or Stagirus, as it is written by some ancient authors, a Greek colony of Macedonia, near the mouth of the Strymon river, whence his appellation of "the Stagirite," Both his father Nichomachus, the private physician of king Amyntas, who was the grandfather of Alexander the Great, and his mother Phæstis, seem to have belonged to the Macedonian nobility. His history offers so many mythical, fabulous, and quite uncertain points, that we refrain from giving in this sketch of his life any thing but the facts generally admitted by classical scholstudied for a short time at Atarneus, He in Asia Minor, and at 17 years of age went to pursue his studies in Athens, where he resided for 20 years. He was a pupil of Plato, whom he sincerely admired, though opposed to him in Plato was accustomed to call him, on account of his enthusiasm for knowledge and his restless industry, the "intellect of his school."
About 343 B. C., Philip of Macedonia made him
the teacher of his son Alexander, at that time the teacher of his son Alexander, at that time 18 years old. His influence on this gifted youth and king was for many years very great and salutary, and Philip rebuilt, at his request, the city of Stagira, which had been destroyed, and erected there, in a pleasant grove, a school called Nymphæum, where Aristotle was to teach. Alexander was very grateful to him, and after the conquest of the Persian kingdom presented him with 800 talents, or nearly a million of dollars. He also sent to him whatever he discovered on his marches that was unknown in Greece, such as plants and animals unknown in Greece, such as plants and animals for scientific examination, and is said even to have been accompanied by him in several of his expeditions. Aristotle returned to Athens, his expeditions. Aristotle returned to Athens, not before 881 B. C., whither he brought his scientific collections, and established a new school of philosophy in the Lyceum, a gymnasium In the forenoon he instructed near the city. his intimate pupils in a philosophical way, which lectures were called esoteric, or strictly philosophical and intimate; and in the evening he taught a large popular circle, in a more common-sense way, about plainer matters, which were called exoteric or public lectures. His philosophical school is sometimes called the Parinetatic because he taught while well-in-Peripatetic, because he taught while walking up and down, and in the time of Plutarch the shady paths of the grove of the Lyceum were still pointed out to the traveller. His friendly relations with Alexander were at length inter-rupted, perhaps on account of admonitions which he sent to that conqueror when, in his leter were he precipiteted himself into a discolater years, he precipitated himself into a dissolute and any thing but philosophic life. Yet the Athenians, bent on rebellion, suspected him of partisanship for Macedonia, and being unable

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to bring against his spotless life any political charge, they accused him of impiety, and thus forced him to flee to Chaleis, on the island of Eubera. There he died in 322 B. C., it is not known of what disease. Only a part of his known of what disease. Only a part of his numerous writings on almost every branch of science and art, were then published; the remainder had an uncertain fate, many of thembeing mainder had an uncertain fate, many of thembeing lost, and many published only in the first centuries of the Christian era. The most important of them bear the following titles: "Organon," or "Logic," "Rhetoric," "Poetics," "Ethics," "Politics," "History of Animals," "Physics," "Metaphysics," "Psychology," and "Meteorology," His writings on mathematics, economy, and history are lost, as well as his lottors and a and history are lost, as well as his letters, and a work called *Politica*, which contained 158 ancient state constitutions and legislations. Many books bearing his name are spurious, and it is only in the present century, since careful and learned criticism has been brought to bear upon his works, that the spurious begin to be sifted from the genuine. His style is difficult to understand, not only because of the intricacy of the subjects treated by him, but also on account of the technical terms entirely his own, the meaning of which must be learned by a careful comparison of the different relations in which they occur. This is the reason why he has so long been misunderstood. No other philosopher has exerted so large an influence on nations, as Aristotle. His merits as a meta-physical thinker may be variously estimated, but his performances in natural science, which but his performances in natural science, which he first created, and his method of philosophy, constitute his greatness. He was the first care-ful observer, anatomical dissector, and psycho-logical describer of animals. He first divided the animal kingdom into classes, described a great many animals before unknown to the scientific world, came near discovering the cir-culation of the blood, discriminated between the several faculties, the nourishing, feeling, concenised to moving and reasonable powers concupiscent, moving, and reasonable powers of animal organism, and attempted to explain the origin of these powers within the body, and built his moral and political philosophy on the peculiarities of human organization—a course to which at last Bacon, Spinoza, Hegel, and many natural pholosophers of our days, have been com-pelled to return. His philosophical method and psculiarity consist in what is commonly called the principle of experience, that is to say, the principle that all our thinking must be founded on the observation of facts. We must not ar-range systems of ideas which contradict physical certainties, but must adapt and conform our ideas to the facts that have been critically established. By following this principle, we may safely expect to arrive at the truth or reality underlying all appearances, and to become ar numbed with the very substance and origi-tial causes of things, provided we think and conclude logically. Logic is therefore the funconclude logically. Logic is therefore the fun-damental science. We cannot even, without

proper light, discriminate between the essential proper light, discriminate between the essential and accidental features of things, or e-cape self-deception and false views. We must, therefore, before all things, observe the different ways in which our mind forms its first notions, and its various and successive conclusions. We and its various and successive conclusions. We must study the meanings of language, and its manifold ways of expressing relations, and thus establish the laws of correct reasoning. totle thus became the father of the science of logic, and the principles of logic which he laid down have never been superseded. It is as knowledged by Kant and Hegel, the two deep It is acknowledged by Kant and Hegel, the two deeperst thinkers of Germany, that from the time of Aristotle to their own age, logic had made no progress. He invented the categories, or fundamental forms of thought, universal expressions for the ever-changing relations of thang, and limited their number to 10; and he devised the so-called "syllogistic," or science to form correct conclusions. He likewise became the father of modern to schedulers showing how the father of modern psychology, showing how the mind creates its speculative methods and general notions; and though we cannot prove their correspondence with the reality, because there is no direct proof for things which transcend our senses and observation that yet was seend our senses and observation, that yet we are always compelled to recur to these general notions and take them for indispensable forms of thinking, if we will think at all. Thus, for example, we form a notion of what is expressed by the word "all," and though we never see and though we never see and observe all things of a certain class, or much less all things together, yet we must operate in thinking with this notion of totality, or give up thinking. Correct logical reasonings or give up thinking. Correct logical reasonings built upon this category may not be susceptible of demonstration, but we cannot do without them; and so of all categories. Every science must, therefore, according to Aristotle, have a fundamental principle, which need not, and cannot be logically proved because it is in itself certain, and accepted as manifest truth by every same person; and upon this principle every science must be constructed. The great difference between Aristotle and all his predecessors in philosophy is, that the latter began with same principle, not in itself clear and generally accepted, but invented by the imagination; thus Heraclitus began with "Fire is the substance of every thing," and "Every thing flows;" and Pythagoras with "The numerical proportions are the real substance." Aristotle, on the contrary, begins all sciences with the established facts of exteriores with same trary, begins all sciences with the established facts of experience, with principles generally acknowledged, and proceeds by logic. The special difference between Aristotle and Flate. his rival for centuries in the favor of the philo sophical world, is that Plato states a dualism material objects and mental ideas; he affirm shadow, the imperfect image, the perishable forms of the ideas as they exist in the divine mind, and are seen by the inner sense, the spiritual eye, and reasoning power of man.

the strict test of logic, observe facts in their

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nd the leas in the Arian heresy, the fir who dis peculiar He is variously described by writthe fir_who represent him as distinguished for the company of t profound. Admitted a deacon in ordination as presbyter was deferred as a suspicion of heresy. It is said his notions of the nature of Christ min of Antioch (311). Condemned by meld at Alexandria (321), he fled to inclured, where he vigorously spread incs, giving them in all possible ways form. The eastern church received the favor, and Eusebius of Nicomedia run synod was reversed, and Arius Eusebius of Cæsarea also interested for Arius, and attempted to reconcile with the Alexandrian bishop, But Alexandrian bishop that bis hole affair was a logomachy. But Alex-mas inexorable. Constantine, therefore, resourse to the council of Nice in 825. decreed consubstantiation as the Arius, ordered consubstantiation as the Arius, ordered his writings to be burned, made it a capital offence to own them. In East, discontent with the Nicene council, a soon to be manifest, and in a short time and itself back to Alexandria. Constantine wored to check it by summoning the focted bishops to his presence, and baning those who would not subscribe to the themas of the council. He was finally incest through the persuasions of his sister, through the persuasions of his sister, and many in his court, who were in sympathy ith Arius to recall and hear him. Alexander, he most powerful enemy, was dead, and Athanadas was bishop of Alexandria in his stead. Arius was reconciled to Constantine, by a careful statement of his faith, and returned to his church, and Athanasius ordered to admit him a nearbotter. Athanasius refused, was dechurch, and Athanasius ordered to admit him a presbyter. Athanasius refused, was deposed and banished. Arius was ordered (386) to present himself to Alexander, bishop of Constantinople, for recognition as printer. Alexander also refused. But Constanting was determined. A day was therefore fixed, when aries should be recognized. Alexander prayed publicly in the service that God would intersect the same evening Arius and determined.

the 16th century to harass the church, as appears from the following church order in England: "That incorrigible Arians be sent to some castle in N. Wales, or Wallingford, to live on their own labor, and none other to resort to them but their keepers, until they be found to repent of their errors." (See ARIANS.)

ARIZONA, better known as the "Gadsden Purchase," is a territory of some 30,000 square miles in extent, recently purchased by the United States from the republic of Mexico for \$10.000.000, under a treaty negotiated by Mr. States from the republic of Mexico for \$10,000,000, under a treaty negotiated by Mr. Gadsden, late U. S. minister to Mexico. Arizona lies between the 31st and 33d parallels of N. tude, and is bounded on the N. by the Gila in the E. by the Rio Grande, which septire in irom Texas, on the S. by the Mexican of Chihuahua and Sonors, of which it wormerly a part, and on the W. by the

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The same evening Arius sudde d in the street, some say by poison of the magical arts of his enemies, and a colic. The latter opi

us perished the leader of

full substance of things, yet at the same time asserts that they are indispensable for every purpose of thinking. But what here unjustifiapurpose of thinking. But what here unjustifia-bly bore the name and claimed the sanction of Aristotle, is, nevertheless, one of the two great contrary systems of philosophy which reach through all ages, the one asserting the possibility of entering with our mental eye into the interior and essence of nature, the other denying this and claiming for our mind only the faculty of giving ideal images of the exterior nature, whose reality is doubtful or at least impermea-ble. Nominalism was for the first scholastic period unsuccessful, but during the second which lasted to the reformation it was victorious. It has ever since exerted a strong influence on modern public opinion. After the restoration of classical literature in the 15th century, the writings of Aristotle were extensively published, and his philosophy better understood; and it has been further developed by Bacon, Descartes, Spinoza, and Kant. Fighte, Schel-Descartes, Spinoza, and Kant. Fichte, Schelling, and Hegel opposed it, the latter, however, adopting many of its ideas. It is, however, not so much by his philosophical system that Aristotle has wielded his enormous influence, especially as this begins only at pressent to be fully understood and justly appre-ciated, as by his logical inventions, and his method of pullosophy in general. He has more caten, as by his logical inventions, and his method of padosophy in general. He has more than any other philosopher set the world to thinking logically, to treating science and art systematically, to banishing from the domain of science the rampant and arbitrary action of fantasy, to observing coolly before venturing to systematize, and to loving truth for its own sake. It is true that under the shield of his name, particularly in the middle ages, many ingenious but us less subtleties were passed off for logic and dialectics, and the nicest distinctions in words accepted for conscientious accuracy; but this was not his fault. While during that mediavid period, philosophy was all over the world regarded as the obedient handmaid of theology, and discarded publicly whenever at war with her, the opinion could not be avoided that there were many things true in the philosophy of Aristotic which were not true in theology. Thus he served to preserve the critical and so entitle spirit through a long age of despirate darkness, which, perhaps, but for him, would have been greatly prolonged. The best backs on the contents, spirit, and bearings of the writings of Aristotic, are Stahr's Arato-tella, 2 voss. Halle, 1839, and Franz Biese's Philosophic des Aristotic es, 2 vols., Berlin, 1835— 142. The best complete edition of Aristotic is The best complete edition of Aristotle is that of the academy of sciences at Berim, by Imman of Bekker, 4 vols., Berlin, 1831, not yet completed, with Latin translations and extracts from the eld commentaries.

ARISTOARNUS, a Greek writer on philosophy and masse, bern at Tarentum, in Italy, it urished also years. B. C. He was like his master, Ar stotle, a man of great universality of interior, and published not less than 450 works

on all imaginable subjects. All these works on all imaginable subjects. All these works are lost excepting his Apposta orotagea (Principles of Harmony). This work was published in Latin at Leyden in 1562 by Gogarinas, and in 1616 in Greek by Meursuis, and subsequently inserted by Meibome in the Antiquer mesical autores (Amsterdam, 1652, 2 vols. 4to). Aristoxenus's theories of music were opposed to those of Perhamonas who made music. to those of Pythagoras, who made nusse de-pendent upon mathematics, while Aristoxelus admitted only the test of the ear. ARITHMETIC (Gr. apiches, to count), the

simplest and most ancient mathematical art treating of numbers. The earliest history of the art is lost, but the science began, as all other sciences, with the Greeks, who cailed the The earliest history of science arithmetic, and gave the art the name of reckoning (λογιστικη). Pythagoras, Archi-medes Apollonius, Pappus, and Prolemy, brought the Greek arithmetic to a high state of perfec-tion. It was, however, deficient in using letters for signs of number, and in having no mark for zero. The Indian method was introduced into Europe by the Arabs in the 14th contury, and diffused over the continent by means of almanaes. It was not until the 16th century that it had assumed its modern form, and come into general use among the learned. Still arother century clapsed before the common 1--other century clapsed before the common per-ple were acquainted with this art, which now occupies so large a space in every school. Arithmetic uses only the 9 Arabic or Indian digits and a zero cipher. The introduction of a "naught," or zero cipher, constitutes the great distinction of modern arithmetic. The decimal system probably possesses no special advantages over the duodecimal, which the Greeks used, except in the employment of a "naught." A binary arithmetic would peners some advantages over either, and the great Lednitz was an earnest advocate of its use. binary system 1 would represent one, 10 two, 11 three, 100 four, 101 five, &c. Arithmetic might be called the science of numbers, and in its higher parts is called the theory of numbers, but it is taught in most of our schools samply as a mode of reckoning. It finds the sum and the difference of numbers, the product of one number multiplied by another, and the quotient of one number divided by another, and the quotient of one number divided by another, and uses the modifications of these processes called ex-tracting roots and raising powers. This is in extent as an art; but its usefulness is great, as it must always be the connecting link between higher mathematics and their purely practical applications. "Chase's Arithmetic" is a very compact elementary treatise; for further studi in the science of numbers, Gauss's Disquisi-tiones Arithmetics, and Legendre's Theorie des Numbers, are standard works. Warren Colbura Numbres, are standard works. Warren Colbura of Massachusetts introduced the Pestalogica method of teaching arithmetic in this country, and his treatises on the subject have been succeeded by a great variety of excellent practical works by American authors,

ARIUS, a native of Libya, an Alexandrian

stantine (887) the anti-Nicene feeling was constantly becoming more general. The whole stantine (887) the anti-income receing was constantly becoming more general. The whole court of Constantius participated in it. An anti-Nicene council was called at Antich (841), consisting of 90 bishops, which, by a little wavering between strict Arianism and Homosome and Athernative Advanceing Athernative Athernative Constanting Constanti ousianism, deposed and banished Athanasius (who had been recalled (388) to his bishopric), and appointed Gregory of Cappadocia in his stead. The western throne had always been opposed to the Arian party, in the person of Constans. The eastern now began to veer in constants. The eastern how began to veer in its attachment to the Arian cause. At this juncture, and after opposing councils and de-crees by the two parties, a joint council was solicited from the eastern and western empe-rors to settle the matters in dispute. There was held the council of Sardica (847). The anti-Nicene party refused to appear, and held a council of their own at Philippopolis. Each anathematized the other; but the Niceans triumphed. Athanasius was restored (849). Constantius now favored the Arian side of the controversy again—a council at Arles (853) sustained by another at Milan (855) again deposed Athanasius, and appointed Georgies of Cappadocia in his stead, and the Nicene party and symbolum were defeated. The Arians were now divided among themselves. The strict or now divided among themselves. The strict or high Arians, being much the smaller party, de-nied the Nicene doctrine of consubstantiation. nied the Nicene doctrine of consubstantiation. The Antiochene school were the semi-Arians, or Homoiousians. The synod of Sirmium reconciled the high Arians, and the Nicene party (357), while the semi-Arians stood out. Through their vigorous opposition, the tide of feeling began again to set against the high party (359). On the death of Constantius (361), and the accession of Julian the Apostate, the Nicene party obtained the ascendency in the West, while in the East the Arians were in temporary power. Factions in their own body (386) weakened Factions in their own body (386) weakened their strength, and prepared the way for their suppression as a sect in the Roman empire (428). Though no sect has since that time been well defined as Arian, yet the doctrines of Arianism made their appearance so late as the 16th century to harass the church, as ap-pears from the following church order in Eng-land: "That incorrigible Arians be sent to some castle in N. Wales, or Wallingford, to live on their own labor, and none other to resort

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Colorado river of the West. The territory is of an irregular oblong form, extending some 650 miles from east to west, and averaging about 50 miles in width from north to south. At the time of the purchase this territory was attached to New Mexico, forming part of a county of that territory, under the name of Bora Anna, but it appears to have been much neglected by the government at Santa Fe, from which it is remote. No courts have as yet (1887) been organized for the administration of who is it is remote. No courts have as yet (1887) been organized for the administration of justice, and with a population of some 5,089 inhabitants, the country is entirely without a logal a verminist. The inhabitants sont a delegate to congress during the winter of 1856-7, who presented their urgent remost that the "Purchase" should be creeted into a separate for trop of the United States, but no definite action was taken at Washingt in out the suffect. Ariz it was a thriving and populous Stanish province but years ago. As early as lest the country was explored by a desir miss many from Societa, who established missions at various points in its fertile valleys and having reported that the country was in his place, and in 1787, just 100 years ago as as inhibitor of united as rapid on grain in to k place, and in 1787, just 100 years ago as as inhibitory of utantile or than 400 to use at 1 whilever and in 1787, just 100 years ago as a first in 1886 were and a finite were in the charles ago at a finite versal of the while were in the charles ago at a finite versal of the while were in successful speciation. It leads to use a distribution was a first that the charles ago at a cofficient of which mining was the charles ago at a finite versal of the while were in successful aftertoin was a first to while he will be a first charles and the first sky with the work of the charles and the first sky with justice, and with a population of some signs in-The control of the co

maize, and cotton, which latter they manufacture into cloth, and are said, in short, to passes a civilization which loses nothing by comparison with that of their Mexican neighbors. Arizona is much cut up and traversed by mountains, yet possesses many fertile valleys capable of sustaining a large population, chief among which are the Mesilia, Rib Grande, San Pedro, Gila, Santa Cruz, &c. The Mesilia and Rib Grande valleys are the lose density populated, containing about 5,000 inhabitants, a majority of whom are Mexicans. Next in point of population is the Santa Cruz valley. The Santa Cruz river traverses the territory from north to south, disappearure near Thesen, and is supposed to reach the Colin by a subterranean passage. Many of the rances deserted by the former inhabitants have large

variety. The status courseless and territory from north to south, disappearing bear Thesen, and is supposed to reach the toll by a subterranean passage. Many of the ranges deserted by the former inhabitants have large well-duft inhole houses, which have recently been on pied by squatters. Moch difficulty is likely to grow out of the quest, its of land tible in Arichas. The Apalics of land tible in Arichas. The Apalics of land tible in Arichas, cam the soft of the ranges of the ranges of the ranges, are the squatters of an Apalics, claim to der the cliff Motor in low and hills to these, are the squatters of an Arichaelist to these, are the squatters of an Arichaelist to these aparts as similar in the part short and god, and a through common is said already to have spring up between Aregon and San Francisco.

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and 30 in height. Two questions have been raised, with a design to throw discredit on the account of Moses. The first as to the form of the ark, that it was not adapted for floating—the second, as to its dimensions, that it was not large enough to answer the purposes for which it was designed, and which he says it actually served. Both to strengthen and to obviate the objections raised, many curious speculations have been resorted to, to prove the basis of calculations. The length of the cubit is generally set down at 21 inches, which would make the ark 512 feet in length, 87 in breadth, and 52 in height. No very valuable results have been attained on either side of this question. The religious traditions of nearly all nations speak of a deluge and a similar vessel, constructed to served. Both to strengthen and to obviate the of a deluge and a similar vessel, constructed to outride the destruction of all things else. (For a more detailed account of the ark see Calmet.) 2. The ark of bulrushes in which Moses re-lates himself to have been exposed by the edge of the river Nile, to save him from the destruc-tion ordered by Pharaoh. 3. The ark of the covenant, or testimony, among the appointments of the Jewish tabernacle and temple. This was built of shittim wood, inlaid and overlaid with pure gold. Its dimensions were about 8 feet and 9 inches in length and 2 feet 7 inches in width and height. Its location was in the holy of holies, or the inner sanctuary, separated from the outer by a vail. The cover of this ark was the mercy seat—over which stood the two cherubim, and floated the cloud of the divine glory. The contents of the ark of the divine glory. covenant were the tables of the law received by Moses (from which the ark had its name), the pot of manna, Aaron's rod, and a copy of the book of the law. The Jews esteemed this ark peculiarly sacred. It was made to be carried in procession before them in the journey to red in procession before them in the journey to the promised land, and for this purpose was committed to the care of the Kohathites, and none were permitted to touch it but the tribe of Levi. Uzzah, having put forth his hand to steady it, in the attempt to bring it back from the Philistian captivity, was smitten unto death. It probably never was returned from the cap-tivity of Babylon—and Josephus expressly says that when leversless was taken by Titus there tivity of Babylon—and Josephus expressly says that when Jerusalem was taken by Titus, there was nothing in the sanctuary. All ancient syswas nothing in the sanctuary. All ancient sys-tems of religious worship had arks or coffers for the reception of such things as were deemed sacred.

ARKANSAS, a county in the E. S. E. part of the state of the same name, is bounded on the E. by White river, and intersected by the Arkansas, both of which are navigable by steamboats nearly the whole year. The surface is level, and about one-third of it is occupied by Grand Prairie, the largest in the state. This prairie is fertile and suited to the culture of corn and cotton. In 1850 the productions were 116,535 bushels of Indian corn, 4,204 of peas and beans, 10,712 of sweet potatoes, and 8,769 bales of cotton. The public schools numbered pupils. Capital, Arkansas Post. Pop. 8,-

245, of whom 1,538 are slaves. Area, 1,200 sq. m.

ARKANSAS, one of the states of the American union, is classed on the maps as a western state; while in its climate, productions, and in-stitutions, it has more affinity with the southern It takes its name from a now extinct Arkansas is situated between lat. 38° and 36° 80′ N., and between long. 89° 45′ and 94° 40′ W., having an extent of 240 miles from north to south, and varying from 170 to 250 miles from east to west the parameter part being on from east to west, the narrowest part being on the south line and the broadest on a parallel of lat. 86° N., including an area of 52,198 square miles. The state is bounded N. by the state of Missouri and a parallel of 86° 30′ N. E. by of Missouri and a parallel of 86° 30' N. E. by the St. Francis river, which also separates it from Missouri, and the Mississippi river, which divides it from the states of Mississippi and Tennessee, S. by the state of Louisiana and the parallel of 33° N. and the state of Texas, and W. by Texas and the Indian territory. The state is divided into 54 counties, as follows: Arkansas, Ashley, Benton, Bradley, Calhoun, Carroll, Chicot, Clark, Columbia, Conway, Crawford, Crittenden, Dallas, Desha, Drew, Franklin, Fulton, Greene, Hempstead, Hotspring, Independence, Izard, Jackson, Jefferson, Johnson, Lafayette, Lawrence, Madison, Marion, Mississippi, Monroe, Montgomery, Newton. Ouachita, Perry, Phillips, Pike, Poinsett, Polk, Pope, Prairie, Pulaski, Randolph, Saline, Scott, Searcy, Sebastian, Sevier, St. Francis, Union, Van Buren, Washington, White, Yell. There are no very populous cities or towns in this state. The oldest settlement is Arkansas Post, the chief town of Arkansas county on the river of the same name, about 50 miles above its junction with the Mississippi. It was settled by the French in 1685, and contains some 500 inhabitants. Little Rock the state capital is by the French in 1685, and contains some 500 inhabitants. Little Rock, the state capital, is also situated on the Arkansas river about 800 miles above its mouth, in lat. 34° 40′ N. and long. 92° 10′ W. It was founded in 1820, is built on a commanding bluff, contains about 3,500 inhabitants, and is a place of considerable business and traffic, communicating, as it does, by steamboats with the principal towns on the Arkansas and Mississippi rivers. Among its public buildings are a state-house, penitentiary, U. S. arsenal, and half a dozen churches. It has 2 or 3 weekly newspaper offices. Van Buren, on the left bank of the Arkansas, in Crawford county, near the western border of the state, is a thriving town, as is also Fort Smith a few miles above, on the right bank. Both these towns do a prosperous business with the traders and travellers between St. Louis, Mo., and Santa Fé, New Mexico. Van Buren contains about 1,500 inhabitants and Fort Smith 2,000. The town of Independence county on the White river; Helena, Phillips co., on the Mississippi; Fulton on the Red river; Warren, Carrollton, Marion, Princeton, Pine Bluff, Camden, Bolivar,

100 ARKANSAS

Eldorado, Fayetteville, Washington, Clarksville, &c., containing populations of from 400 to 1,200 each.—The population of Arkansas in 1850 was 209,897, of whom 162,129 were whites; 608 free persons of color, and 47,100 slaves. The following table will show the increase in population, both slave and free, from 1820, the year after Arkansas was organized as a territory, to 1854:—

1950		W	Free C 111.	1.617	T :sl. 14,278
1-40		 25,671	141	4,5.6	84,355
1-40		77.174	4/3	12.9	97,574
100		14: 1-9	6-	47,1(8)	344.49T
1-14		 1=7,219	G14	5 9 ,:97	347,113
	_				•

Of the free inhabitants in 1850, the number Of the free inhabitants in 1850, the number born within the state was 63,206; in Virginia, 4,737; North Carolina, 8,772; South Carolina, 4,587; Georgia, 6,367; Alabama, 11,250; Mississippi, 4,463; Louisiana, 1,006; Tennessee, 83,807; Kentucky, 7,428; Ohio, 1,051; Indiana, 2,128; Illinois, 3,276; Missouri, 5,828; New England states, 542; other states, 2,307; European countries, 1,628. The employments of the free mala manulation over 15 years of ago of the free male population over 15 years of age (40.785) were, in 1850, as follows: agriculture, 24,942; labor, not agricultural, 5,684; commerce, trade, manufactures, mechanic arts, and mining, 4,296; army, 33; navigation, 106; law, 224; medicine, 449; divinity, 233; other pursuits requiring education, 676; governmental pursues repairing control of the property of t by its torthous course the actual distance probably between 300 and 400 miles, ansas river, one of the largest tributaries of the Mississippi, having its source by numerous branches high up in the Rocky mountains, traverses the state by a tortuous route through its centre, the general direction being from N. W. to S. E. for a distance by the course of the to S. E. for a distance by the course of the atre an of about 1,500 miles, and is navigable far above the limits of the state into the Indian territory. The Red river, a large navigable stream which rises in New Mexico, flows through the south-west corner of the state, affording commercial facilities to the counties of Sevier, Hempstead, and Lafayette. The St. Francis river rises in the Ozark mountains of Missouri, forms the boundary between Missouri and Arkansas for a short distance, runs through the north-eastern corner of the state, and empties into the Mississippi a short distance above Helena. Although a large river, its navigation is rendered difficult by numerous rafts or snags. For a distance of some 50 miles the river spreads out into a lake of from 5 to 20 miles in width, supposed to have been produced by a sinking of the earth causal by the great earth-quake of 1811. The St. Francis is 450 miles in length, and navigable for 150 miles at favorable seasons of the year. White river rises in the seasons of the year. White river rises in the north west corner of Arkansas, and, after rung north into Missouri, returns into Arkansas,

takes a south-eastern zig-zag course, and empties into the Mississippi some dozen miles above the mouth of the Arkansas. White river is about 600 miles in length, and is navigable for small steamers to Batesville, 260 miles from its mouth, and, when cleared of snags and drift-wood, may be ascended at favorable seasons at least 4:00 miles. It has numerous tributaries rising m Missouri, the chief of which are the Black or Big Black and Spring rivers. The fermer ing Black and Spring rivers. The Newtonian Black as southern direction and joins White river 80 or 40 miles below Batesville, and is navigable for steamers during the greater part of the year, a distance of 100 miles. The Washits or Quachita rises in the western part of the state, south of the Arkansas river, runs in a south-eastern direction parallel with that stream, passing through a beautiful and fertile person of southern Arkansas, thence running seath through a portion of Louisiana, empties into the Red river near its junction with the Mississipp. It is navigable for about 350 miles from in mouth. Its chief tributaries are the Lade Missouri, Sabine, Saline, Bayon Bouf &c. The Ozark mountains, commencing near Links Rock, north of the Arkansas river, stretch away in a north-western direction beyond the borders of the state, but seldom rise to an elevation beyond 1,500 or 2,000 feet. They are composed chiefly of limestone, clay, slate, and-stone, greenstone, and granite. South of the Ar-kansas is the Masserne range, which is so barran that the gray sandstone of which the mount are mainly formed, is the prevailing color of the landscape.—The physical conformation of Arkansas presents great variety. The eastern pertion of the state, bordering on the Mississippi river, including a strip ranging from 30 to ice miles in width, is low and flat, covered by des forests interspersed with swamps and small lake or ponds, frequently of stagmant and unheathy water. This portion of the state is annually overflowed by the floods of the Mississeps. Arkansas, and other rivers. Passing west, the surface gradually rises, and near the centre of the state the country becomes hilly, and the forests are interspersed with rolling prairies. Still further west these hills terminate in the Ozark mountains, and beyond these is an extensive elevated plain continually increasing in height in its course toward the Rocky mountains, in which it finally terminates. The val ley of the St. Francis river in the north-ea part of the state, is a continuous swamp, the with shallow lakes and bayous, and covered with a heavy growth of cypress, gum, and sycamore, the cypress growing in the water, and the other trees in the marghes or swamps. Rising into the higher land, where the soil is comparatively dry, the surface is covered with a growth of white oak and hickory, with occa-sional thickly set cane-brakes.—The mineral wealth of Arkansas is as yet comparatively undeveloped. It is known that the state abounds in cannel, authracite, and bitumineus coal, which is found in greatest profusion along the

banks of the Arkansas river on either side, from a point a short distance above Little Rock to the western boundary of the state. Iron ore of a good quality has been found in the Ozark Zinc ore exists more extensively ountains. in Arkansas than any other state in the union except New Jersey. Galena or lead ore, frequently bearing silver, abounds in various parts of the state. Gold has been discovered in White county, but has never been profitably White county, but has never been profitably worked. Manganese is very abundant, and, according to De Bow, Arkansas contains more gypsum than all the other states in the union. Kear the hot springs in the Washita valley, is an immense bed of superior oil-stone, or novaculite, said to be equal to the celebrated Turkish oil-stone. Salt of very good quality is produced from the saline springs in the vicinity of Washita and elsewhere.—The soil of Arkanesa varies from the righest and most pro-Arkansas varies from the richest and most proand productions are equally varied. The river bottoms, composed of a black alluvium deposited from the higher lands by the floods of untold centuries, are wonderfully fertile, producing the producing are so cottom over tobacco sweet bountiful crops of cotton, corn, tobacco, sweet potatoes, melons, peaches, grapes, and various other fruits. The soil is well adapted to sugar-cane, but the climate is not sufficiently warm. There are also immense tracts of submerged bottoms equally rich, which might be brought under cultivation by a judicious system of drainage. Rising from the valley, the soil becomes less productive, and in many places will not repay cultivation; while large portions of the uplanda, particularly in the northern part of the state produce good errors of wheat and of the state, produce good crops of wheat and other grain, as well as the best of apples, and are well adapted to grazing, which is carried on to considerable extent. The uplands are largely interspersed with rolling prairies, which are gen well watered, though Grand Prairie, 90 miles long and 30 broad, situated between Ar-kansas and White rivers, is an exception, bevalleys are entirely destitute of good water, the inhabitants resorting to rain water, which is collected and kept in large tanks sunk into the ground, and filtered river water. These valleys are very unhealthy, particularly to the unacclimated. The more elevated portions of the state are quite salubrious.—The climate of Arkansas is temperate, but subject to sudden changes in consequence of the north winds. The temperature at Little Rock usually ranges from 15° to 99° F., and averages 62° 66', though the mercury has been known to fall as low as 8°. the mercury has been known to fall as 10w as 8°. The mean temperature for the winter months—Dec., Jan., and Feb.—is 45° 82′; for June, July, and Angust, 79° 66′, the mercury reaching 90° or above for from 40 to 50 days during the summer. Terrific thunderstorms prevail during the spring and summer. Nearly 8 inches of rain fell in this state duing the month of April, 1850.—The productions of Arkansas are mainly agricultural. The area of the state, in acres, is

83,406,720, of which, in 1850, only 2,598,214 acres were laid out in farms, and only 781,530 acres were under improvement; though the amount is now (1857) much greater. The cash value of these farms in 1850 was estimated at \$15,265,245. The value of farming utensils was put down at \$1,601,296; live stock, consisting of horses asses mules cattle sheep. was put down at \$1,601,296; live stock, consisting of horses, asses, mules, cattle, sheep, and swine, \$6,647,969; animals slaughtered, \$1,163,313. The produce of the state for the same year was 27,137,600 lbs. of ginned cotton, 182,595 lbs. of wool, 1,854,239 lbs. butter, 80,088 lbs. cheese, 192,338 lbs. beeswax and honey, 63,179 lbs. rice, 218,936 lbs. tobacco, 199,639 bushels wheat, 8,047 rye, 8,893,939 maize, 656,183 oats, 285,738 peas and beans, 193,632 Irish potatoes, and 788,149 sweet potatoes. The value of orchard products was \$40,141; of home-made manufactures, \$638,217. The people of Arkansas as yet pay very little attention to manufacturing. According to the census of 1850, the number of manvery little attention to manufacturing. According to the census of 1850, the number of manufacturing establishments in the state producing each \$500 and upward annually, was only 271, of which 3 were cotton factories. The capital invested was \$338,154; raw material and fuel consumed, \$286,899; and the aggregate product per annum was \$668,815.—A state census was taken in 1854, of which only a few details have been published; but from such as are accessible, it appears that there were in the state 5,025,926 acres of land laid out in farms, the improvements on which were valued at the improvements on which were valued at \$22,346,247. Of the lands under cultivation, 256,666 acres were in cotton, and 600,518 acres in grain, producing 160,779 bales of cotton, 11,536,969 bushels of corn, 883,535 bushels ton, 11,536,969 bushels of corn, 383,535 bushels of wheat, and 1,040,206 bushels of oats. The value of city lots and improvements was estimated at \$2,553,170; sawmills, \$174,535; tanneries, \$24,200; distilleries, \$2,946; household furniture, \$66,465; pleasure carriages, \$97,496; horses over 2 years old, \$2,766,504; do. mules, \$873,873; do. asses, \$74,603; do. neat cattle, \$1,701,120; stock in trade of all trades, \$1,385,-047; loans over debts, \$405,705; steamhoats 047; loans over debts, \$405,705; steamboats and ferries, \$61,945; gold watches and jewelry, \$116,303; capital employed in manufactories, \$16,220; slaves over 5 and under 60 years of age (40,612 in number), \$22,728,825—making the total taxable property of the state \$55,337,384, being an increase of \$20,341,499 in 4 years, from 1850 to 1854. The tax for the latter year was \$146,488.—The state is remarkably well stocked with wild animals, valuable for their meat, hides, and furs, among which are the buffalo, deer, elk, beaver, otter, rabbit, raccoon, wild cat, catamount, wolf, and bear. Wild turkeys, geese, quails, and various other birds, are also found in great abundance.—The chief exports of the created received well bidges and of the state are cotton, maize, wool, hides lumber, which find a market in New Orleans, through which port Arkansas receives her foreign merchandise. A thriving domestic commerce is carried on along the Mississippi, Arkansas, and other navigable streams of the

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state; and the traffic with the Indians on the western border is of considerable importance.—Among the most striking natural curiosities in the state are the famous hot springs, which are much visited by the curious tourist as well as the invalid, the waters being regarded as beneficial to those suffering from the effects of increary in the system, rheuma-tism, stiffness of the joints, &c. These springs are situated on a small tributary of the Washita, about 6 miles from that river, and 60 miles W. from Little Rock, in Hot Springs county. They are remarkable both for their numbers and the high temperature of their waters. From 75 to 100 of these springs, varying in temperature from 1052 to 1602 F., issue from a lofty ridge of sandstone overlooking the town, while a number rise from the bed of Hot Spring creek, which flows at the foot of the ridge, and, by reason of the springs, is rendered sufficiently warm for bathing in midwinter. High upon the ridge, and within a few feet of a hot spring, issues a spring of pure cold water. In Pike county on the Little Missouri river, is a natural bridge, which is quite a famous curiosi-ty; and near by is a mountain of very fine ala-The mountainous portions of the state respice scenery.—Arkansas has no state asyluna, or institutions for the instruction of the deaf and dumb or the blind, nor for meliorating the condition of the insane; and the institutions for general education are by no means equal to those of the south-western states generally. The census returns for 1850 report 353 primary and public schools, with 355 teachers and 8,449 pu-pils; 90 academics and other schools, with 126 teachers and 1,407 pupils, and 3 universities and colleges, with 14 teachers and 150 students. The state contains 16,935 white adults, who are unable to read and write, being a fraction more than one fourth of the entire white adult population. The secretary of state, who is exactle in state commissioner of common schools, in a late report complains that the returns from the school report complains that the returns from mession officers are exceedingly imperfect; and that while the sale of school lands granted by constraints of school lands granted by constraints. gress would create a large fund, so that great obstacle to the organization of common schools is not so much a deficiency in the means to sustain them," as write indifference that perto sustain them," as withe indifference that pervades the public mind on the subject of education." Nine weskly in wapapers are published in Arkansas, with an azzrezate circulation of 7,250, or 677,000 copies annually. The most numerous religious denominations in the state are the Metholists and Raptists. The former have 16s churches, valued at \$27,070, with accommodations for 14,250 weekinglers; the latter, 114 churches, with accommodations for 14,700, and church property worth \$21,870; the Presbyterius, 25 cl. rathes, accommodating 7,200, at d. 3 urch property worth \$28,275; Rosenton and church property worth \$28,275; Rosenton a 7 200, and obtain property worth \$28,275; Roman Catholics, 6 churches, accommodating 1,400, and church property worth \$6,650; the Episcopalians, 2 churches, accommodating 350;

the Unionists, 5 churches, with accommodations for 1,800 worshippers. There are several other minor religious sects in the state, making the total number 362, with accommodations for 60,226 worshippers, and church property valued at \$89,325.—The constitution of Arkar-sas used at \$89,325.—The constitution of Arkar.sas provides for a legislature composed of a senate of not less than 17 nor more than 33 members. to be elected from single districts for a term of 4 years; and a house of representatives, which shall consist of not less than 54 nor more than 100 members, to be chosen from countles every 2 years. The present senate consists of 25 members, and the house of 75. The legislature hold sessions biennially, on the first Monday a November, and members receive \$3 per dom, and \$3 for every 20 miles of travel to and for the capital. The executive power is vested in a governor, who holds his office for 4 years, has is ineligible for more than 8 years in a consective term of 12 years. He receives a salary of \$1,800 per annum, and the free use of the er Control States, and a citizen of Arkansas fra years preceding his election. General elections are held biennially on the first Monday in Ar gust; and every white male citizen of ted States, who shall have been a citizen of Arkansas for 6 months preceding an election, may vote in the county where he resides. Soldered the U.S. army, and sailors and marines of the U.S. may, are excluded from the elective franchise. The elections must be beld river rose unless otherwise ordered by the legislature. A serstreasurer, are elected by the legislature in joint ballot. The judicial power of the state is vested in a supreme court of 3 justices, Laving appellate jurisdiction only (except in particular cases pointed out by the constitution), holders 2 terms annually at Little Rock; 7 circut courts, having original jurisdiction over \$1 criminal cases not expressly otherwise provided for; exclusive original jurisdiction of all crime amounting to felony at common law; criginal jurisdiction of all civil cases not recognizable before justices of the peace, and all matters of contract where the sum in controversy excession \$100; county courts and justices of the peace. The judges of the supreme court are elected by the legislature for 8 years, and the circuit judges by the people for 4 years. The constitution prohibits the legislature from enacting laws for the establishment of lotteries and the sale of lottery tickets; also forbids the emancipation of the slaves of the state without the consent of their masters, and guarantees jury trial to slaves charged with crime. Arkansas has 2 representatives in the popular branch of congress, and is entitled to 4 electoral votes for resident of the United States. There are b banks in Arkansas. -- The state has done nothing as yet in the way of internal improvements beyoud the establishment of post roads, and the improvement of some of her navigable streams. though a number of railroads have been projected. Among these are the Cairo and Fulton road, starting at Ohio city, Mo., opposite Cairo, Ill., crossing the S. E. corner of Missouri, traversing Arkansas diagonally (via Little Rock) from N. E. to S. W., and passing thence to Houston, Texas; the Memphis and Little Rock road, extending from a point opposite Memphis, Tenn., in a western direction to Little Rock; the Helena and Little Rock road, starting from Helena on the Mississippi, running west to Lit-Helena on the Mississippi, running west to Little Rock, and thence in the same direction to Van Buren and Fort Smith, and into the Indian territory; a road from Fort Smith to run eastwardly and connect with the New Orleans, Opelousas, and Great Western road at Vicksburg, Miss.; a road from Fort Smith, running north to Batesville, and thence into Missouri to connect with the South-western Pacific road; and a road from Helena running in a north-western direction to Yellville. Of the above roads, only the Cairo and Fulton, and Memphis and Little Rock, are in course of construction. Arkansas was originally a portion of the territory of Louisiana, purchased from the French under the administration of Thomas Jefferson, in 1803, for the purpose of commanding the mouth of the Mississippi river. Arkansas remained a part of Louisiana territory till 1812, when the present state of Louisiana was admit-ted as a member of the American union, and the remaining portion was organized as Missouri territory, which name it held till 1821, when the state of Missouri was admitted to the union, and Arkansas was erected into a territory bearing its present name. It remained under a territorial government till June, 1836, when a constitution was formed at Little Rock, and Arkansas became an independent state of the American confederacy. In 1854 the state debt of Arkansas amounted to \$4,260,574, of which \$1,848,184 was for interest accrued and unpaid. Since that time certain state bonds have been cancelled, reducing the state debt to **\$**3,319,586.

ARKANSAS RIVER, the largest tributary of the Mississippi, after the Missouri, rises in the Rocky mountains, in about 42° N. lat., passes from the Indian territory into the state of Arkansas, through the middle of which it sweeps, and empties into the Mississippi, after a course of over 2,000 miles. Its navigation is unobstructed by shoals or rapids. It passes first through arid plains, then through a fertile country, and for 40 miles above its mouth. country, and, for 40 miles above its mouth, through an inundated forest.

ARKEKO, or ARKIKO, a seaport town of Abyssinia, on a bay of the Red sea, lat. 15° 85' N. long. 39° 25' E.

ARKLOW, a maritime town and parish of Ireland, county of Wicklow, on the Avoca, 39 miles S. S. E. of Dublin. It is situated about 500 yards from the point at which the river pours into the sea. Pop. in 1851, 3,300.

ARKWRIGHT. Gronge great-grandson of

pours into the sea. Pop. in 1851, 3,300.

ARKWRIGHT, GEORGE, great-grandson of the inventor of the spinning frame, born Aug. 20, 1807, died in London, Feb. 5, 1856. He was

a barrister-at-law, a magistrate for Derbyshire, and member of parliament for Leominster on several occasions. His election was due to his family connections, rather than to his qualifications.

ARKWRIGHT, SIR RICHARD, inventor, born at Preston, Lancashire, Dec. 28, 1732, died Aug. 8, 1792. He was the youngest child of a family of 13, and his parents were too poor to give him any education. He earned his living as a barber, shaving in a cellar for a penny, till he was 80, when he became acquainted with a clock-maker of Warrington, named Kay, with whom he attempted to construct a perpetwhom he attempted to construct a perpet-ual motion. At that time English cottons were made with only the west of cotton, the warp being of linen, and it was considered impossible to spin cotton so as to make it applicable as warp. Moreover, the supply of west was short of the demand, though Hargreaves of Lancashire had shortly before invented his jenny, and had several machines at work in Nottingham. Such was the state of things in 1768, when Arkwright produced a model of a new machine for spinning cotton thread, but fearing the same hostility that had driven Hargreaves away, he proceeded at once to Nottingham. There he met with the Messrs. Wright, ham. There he met with the Messrs, Wright, bankers, who engaged to furnish the capital necessary to perfect the invention, but these gentlemen soon became frightened, and retired. Arkwright then applied to Messrs. Need and Strutt, and the last, being a good machinist, saw at once the value of the invention, and the firm took an interest in it. Arkwright was protook an interest in it. Arkwright was pro-foundly ignorant in mechanics, but a few sug-gestions of Mr. Strutt about the wheel-work, overcame the last difficulty, and a machine overcame the last difficulty, and a machine driven by a horse was soon in operation. In 1771 another mill, driven by water power, was established at Cromford, in Derbyshire. The first patent was granted in 1769, and unsuccessfully contested in 1772. In the year 1775 Arkwright obtained a new patent for improvements, but it seems he had included in it things discovered before and 6 years later it was described. discovered before, and 6 years later it was declared void by the courts, but in 1785 he obtained a decision in his favor, and was reinstated in the monopoly. The object of Arkwright's invention was to spin cotton fine, and with a hard twist, and fit for warp. This was done by the use of drawing-rollers, by sets of two, each succeeding set moving faster than the last, thus extending the cotton between them, and by a fast revolving spindle giving the twist to the cotton of the cotton twist to the cotton as it came out from be-tween the last pair of rollers. The introduction of this machine, which was far superior to that of Hargreaves, caused the latter to die of grief. Arkwright was well repaid for his ingenuity. As a manufacturer he accumulated a fortune of \$2,500,000. He was elected sheriff of Derbyshire, and was knighted on the occasion of presenting an address to the king. His invention enables one man to do as much work as 130 could do before, and it is calculated that

40,000,000 hands would scarcely be sufficient

40,000,000 hands would scarcely be sufficient to accomplish the spinning now done by machinery in England alone.

ARLAND, JACQUES ASTONER, a miniature painter, born at Geneva in 1688, died there in 1748. He practised his art in Paria, where the regent was one of his pupils, and afterward in England, where he acquired the friendship of Sir Isaac Newton. He made a fortune, and in 1799 returned to his pative country.

car issae Newton. He made a fortune, and in 1729 returned to his native country.

ARLANGES, JOSEPH MARIE GASTON D', a French marshal, born in the village of Marsesche, in the department of Sarthe, Sept. 1, 1774, died July 13, 1843. On the outbreak of the revolution he emigrated with his family, and family for the second se k of the revolution he emigrated with his family, and fought for the cause of royalty under Condé, and in the Vendée under Autichamp. Subsequently he took an active part in the war with Spain, and especially won fame by his exploits in Africa. He distinguished himself at the first capture of Mascara, but failed in the expedition of Tlemcen under Marshal Clausel in 1836.

ARLES, one of the oldest cities of southern France, on the left bank of the lower Rhone, at the point where the river divides into 2 branches to enclose its delta or the island of Camargue, 46 miles N. N. W. of Marseilles. It Camargua, 46 miles N. N. W. of Marseilles. It is an ill built, dirty, and somewhat unhealthy place, but enjoys great historical celebrity. An important town on the invasion of Casear, who calls it Arelate, it afterward became a Roman colony, and was long large, rich, and populous. Its amphitheatre, although not as well preserved as that of Nismes, is superior in size and ed as that of Nismes, is superior in size and magnificence. An Egyptian obeliak, consisting of a single block of granite about 54 feet in height, is yet standing on one of the public thorbeight, myet standing on one of the public thor-oughfares, while the ruins of an aqueduct, of 2 temples, of a triumphal arch, an extensive cemetery, and numerous fragments of granite and marble columns, are to be seen in different parts of the dilapidated city. The beautiful and marble columns, are to be seen in different parts of the dilapidated city. The beautiful statue known as the Venus of Arles, a rival to the Venus de' Medici, was discovered here in 1651, and is now in the imperial museum at Paris. The Roland tower, and the Byzantine church of St. Trophime, must also be mentioned, as also the town hall, designed by the illustri-com Manageri. substitute town mail, designed by the illustri-ous Maneard. Arles, moreover, contains a school of navigation, a college, a collection of natural history, a museum of antiquities, a pub-lic library, and a theatre. Silk, soap, and glass bottles are manufactured, and the sameges of Arles are in high esteem. Pop. 20,226. Aries is celebrated for the beauty of its women, in many of whom the Roman physiognomy is preserved in a striking manner. In their headness, too, many of them remain faithful to the ancient Roman customs.—The Carrier and American ancient Roman customs.—The CANAL OF ARLES was constructed to obviate the difficulties in the was constructed to obviste the dimension in mavigation of the Rhone and Durance, has 3 branches starting from the city of Aries; the one, running 8., ends at Port Hone, on the sea, E. of the eastern mouth of the Rhone, the other running E. joins the Durance opposite to Cade-

net. It is also connected with the canal of Beaucaire, and consequently with that of Languedoc, so that it has become the centre of a considerable and growing trade.

ARLINCOURT, Vioros, viscount d', a French poet and novelist, born 1789, died Jan, 22, 1856. His father, a farmer of the public revenue, was one of the victims of the revelation, but left him the greater part of his wealth. Victor commended himself to Napoleon's meticle by publishing, in 1810, an allegorical posmentitled Une matinée de Charlemagna, in which the vanity of the emperor was taken by fintisthe vanity of the emperor was taken by flat ing allusions. The writer was rewarded being appointed at once an equerry to Made Mère (such was the title of Napoleon's moth and an anditor under the county of the cou رد اما and an auditor under the council of sta next undertook an epic poem, the here of which was still Charlemagne, or rather Manished on the fall of the empire. D'Arlinesus now had to change his poetry as well as his political opinions. This was very easily done, litical opinions. a natural preference toward the Bou he had bons. He did not, however, meet with the favor he expected at the hands of Louis XVIII., but consoled himself by giving his whole attention to literature. The publication of his Caroléide was soon followed by that ef a novel, Le Solitaire, which made a decided hit; at least it became an object of admiration to some, though it was laughed at by many. Whatever its intrinsic value, it certainly draw a good deal of attention, was dramatized at the original theatest and handscand at the contraction. of the principal theatres, and burlesqued at to others. Then appeared, in succession, E libra others. Then appeared, in succession, L'A gère, Le Renégat, and Ipsibeé, which isour the equivocal fame of their author. But the singular events of his literary career was publication of a novel in rhyme, Ismesil Ismour et le mort, which was marked by eccentricities than the preceding works the performance at the French theatre tragedy, Le Siège de Paris. The most traordinary lines, the oddest combination syllables producing the strangest confusicions, were received with such bursts of a ter that the actors did not attempt a marfarmence. ter that the actors did not attempt a performance. When the laughter he sided, D'Arlincourt fell into comparaurity, but was afterward called o e revolution of 1880. the revolution of 1830. Then, t guise of so-called historical novel several regular satires on the men of the time. After 1848 tention to politics still more decide published two pamphlets, Dies is a Platin Rouge, in which he uttered to he was brought to account before a instice, and aestenced as suffer of R. somewhat quieted his hot spirit, and time he lived in retirement.

ARLON. a justice, and sentenced as gr

time he lived in retirement.

ARLON, a town of Belgium, capital of province of Luxembourg, 104 miles & E. & Brassels. It is sected on an eminence of

rounded by forests, and has an active trade in grain, and manufactures of woollen stuffs. It is the ancient Orolanum, and possesses a number of antiquities, coins, and busts of heathen divinities, which have been discovered near it. It was pillaged in 1793 by the French, after a victory gained in the neighborhood over the Austrians. During the wars of Louis XIV. it was several times captured by the French and Spaniards.

Spaniards.

ARMADA, Spanish, the great naval armament sent by King Philip II. of Spain, in 1588, for the conquest of England, in order thereby "to serve God, and to returne unto his church a great many contrite souls that are oppressed by the heretics, enemies to our holy Catholic faith, which have them subject to their sects, and unhappiness." (Expedit. Hispan. in Angl. Vers Descriptio, A. D. 1588.) The fullest account of this armament is given in a book published, about the time it set sail, by order of Philip, under the title La Felicisima Armada que el Rey Don Felipe nuestro Señor mando juntar en el Puerto de Lieboa 1588. Hecha por Pedro de Paz Salas. A copy of this work was procured for Lord Burleigh, so that the English Spaniards. Pedro de Pax Salas. A copy of this work was procured for Lord Burleigh, so that the English government was beforehand acquainted with every detail of the expedition. (This copy, containing notes up to March, 1588, is now in the British museum.) The fleet is therein stated to have consisted of 65 galleons and large ships, 25 weas of 800 to 700 tons, 19 tenders of 70 to 100 tons, 13 small frigates, 4 galeasses and 4 galleys, in all 180 vessels, with a total tonnage of 75,868 tons. They were armed with 2,431 gans, of which 1,497 were of bronze, mostly full guns, of which 1,497 were of bronze, mostly full cannon (48 pdrs.), culverines (long 80 and 20 pdrs.), &c.; the ammunition consisted of 123,-790 round shot and 5,175 cwt. of powder, giving about 50 rounds per gun, at an average charge of 41 lbs. The ships were manned with charge of 41 lbs. The ships were manned with 8,052 sailors, and carried 19,295 soldiers and 180 priests and monks. Mules, carts, &c., were on board to move the field artillery when landed. The whole was provisioned, according to the above authority, for 6 months. This fleet, unequalled in its time, was to proceed to the Flemish coas where another army of 80,000 foot and 4,000 horse, under the duke of Parma, was to embark, under its protection, in flat-bottomed vessels constructed for the purpose, and manned by sailors brought from the Baltic. The whole were then to proceed to England. In that country Queen Elizabeth had, by vigorous exer-tions, increased her fleet of originally 80 ships, to some 180 vessels of various sizes, but generally inferior in that respect to those of the Spaniards. They were, however, manned by 17,500 milors, and therefore possessed far more numerous crews than the Spanish fleet. The English military force was divided into two armies, one, of 18,500 men, under the earl of Leicester, for immediately opposing the enemy; the other, 45,000, for the defence of the queen's person. According to a MS. in the British museum, entitled "Details of the English Force Assembled

to Oppose the Spanish Armada," (MS. Reg. 18th c. xxi.), 2,000 infantry were also expected from the Low Countries. The armada was to leave Lisbon in the beginning of May, but, owing to the death of the admiral Santa Cruz, and his vice-admiral, the departure was delayed. The duke of Medina Sidonia, a man totally unduke of Medina Sidonia, a man totally unacquainted with naval matters, was now made
captain-general of the fleet; his vice-admiral,
Martinez de Ricalde, however, was an expert
seaman. Having left Lisbon for Corunna for
stores, May 29, 1588, the fleet was dispersed by
a violent storm, and, though all the ships joined
at Corunna with the exception of four, they
were considerably shattered, and had to be repaired. Reports having resched England that paired. Reports having reached England that the armament was completely disabled, the government ordered its own ships to be laid but Lord Howard, the admiral, opposed this or-der, set sail for Corunna, learned the truth, and, on his return, continued warlike preparations. Soon after, being informed that the armada had hove in sight, he weighed anchor and socompanied it on its way up the channel, harassing the Spanish ships whenever an opportunity presented itself. The Spaniards, in the mean time, proceeded to the coast of Flanders, keepclose together as possible. In the var ous minor engagements which took place, the handier ships, more numerous crews, and better handier ships, more numerous crews, and better seamanship of the English, always gave them the victory over the clumsy and undermanned Spanish galleons, crowded as they were with soldiers. The Spanish artillery, too, was very badly served, and almost always planted too high. Off Calais the armada cast anchor, waither the duke of Parmada cast anchor, waither the duke of Parmada cast anchor, waither the duke of Parmada cast anchor, waither the corner of the corner of the case of the corner of the case of th ing for the duke of Parma's fleet to come out of the Flemish harbors; but it soon received word that his ships, being unfit for fighting, could not come out until the armada had passed the straits and driven off the Anglo-Dutch blockading squadron. It accordingly weighed again, but, when in sight of Dunkirk, was becalmed but, when in sight of Dunkirk, was becamed between the English fleet on one side and the Dutch on the other. Lord Howard prepared fire-ships, and when, during the night of Aug. 7, the breeze sprang up again, he sent 8 of them among the enemy. They produced a perfect panic in the Spanish fleet. Some ships weighed among the enemy. They produced a perfect panie in the Spanish fleet. Some ships weighed anchor, some cut their cables, drifting before the wind; the whole fleet got into confusion, several ships ran foul of each other and were disabled. By morning order was far from bedisabled. By morning order was far from being restored, and the several divisions were scattered far and wide. Then Lord Howard, reinforced as he was by the ships equipped by the nobility and gentry, as also by the blockading squadron under Lord Byron, and ably seemed the state of the second of onded by Sir Francis Drake, engaged the enemy at 4 A. M. The battle, or rather chase (for the at 4 A. M. The battle, or rather chase (for the English were evidently superior on every point of attack), lasted till dark. The Spaniards fought bravely, but their unwieldy ships were unfit for the navigation of narrow waters, and for a moving fight. They were completely defeated, and suffered severe loss. The junction

with the duke of Parma's transports having thus been foiled, a landing in England by the armada alone was out of the question. It was found that the greater part of the provisions on board had been consumed, and as access to Spanish Flanders was now impossible, nothing remained but to return to Spain to lay in fresh stores. (See "Certain Advertisements out of Ireland Concerning the Losses and Distresses Happened to the Spanish Navie on the Coast of Ireland," London, 1588—Examination of Emanuel -Examination of Emanuel iand, London, 1988—Examination of Emanuer Fremosa, who served in the San Juan, 1,100 tons, flag-ship of Admiral Ricalde). The pas-sage through the channel being also closed by the English fleet, nothing remained but to round Scotland on their way home. The armada was but little harassed by the fleet of Lord Seymour sent in pursuit, as that fleet was badly supplied with ammunition and could not venture on an attack. But after the Spaniards had rounded the Orkneys dreadful storms arose and dispersed the whole fleet. Some ships were driven back as far as the coast of Norway, where they fell on the rocks; others foundered in the North sea, or struck on the rocks on the coast of Scotland or the Hebrides. Soon after, fresh storms overtook them on the west coast of Ireland, where above 80 vessels were lost. Those of the above 80 vessels were lost. Those of the rews who escaped on shore were mostly killed; about 200 were executed by command of the lord deputy. Of the whole fleet not more than 60 vessels, and those in the most shat-tered condition, and with famine on board, red condition, and with famine on board ached Santander about the middle of Sep

tember, when the plan of invasing was definitively given up.

ARMADILLO, (disppus, Linn.) a genus of the class mammalia, and order edentata, forming a small but distinct family, intermediate between the rloths and ant-eaters and having an affinity to the families of chlumphorus and oryeteropus. They are distinguished by the possession of molar teeth only. The armadillos have, however, a far more obvious, though possibly less scientific characteristic, in their singular coat-armor, by which, instead of hair, their whole bodies and head are covered and protected. This armor consists, in all the species, of 3 bony bucklers, all composed of small polygonal plates set in juxtaposition to one another, but neither connected by joints nor separately movable, so as to form a sort of mosaic pavement. The bucklers which cover the rump and shoulders of the animal, forming, as it were, each, a single solid piece, are capable of little pliancy or motion save what is allowed during the life of the animal by the partial elasticity of the thin shell or crust lubricated by the animal oils which penetrate it. These bucklers, however, are connected by a number of transverse movable bands, composed of similar plates with the principal bucklers, which are themselves connected by the soft and pliant inner skin of the animal, and are thus rendered perfectly accommodating so as to admit of the most varied and rapid motions,

being situated immediately above the loise which region are assigned all the prime movements of animal economy. The business of the control o movements of animal economy. The business or helmet, which defends the head of the semadillo, has no connection of any sort with the armor of the shoulders, so that the neck is left perfectly free, while it is, at the seme time, completely protected by the projection of the skull-piece, which defends the naps in the semantic and the semantic an manner as was done by the corresponding p of an ancient helmet of the middle ages. deed, the whole arrangement of the def of this singular creature bears so strong a retion to those of the man-at-arms of the 1 century, that if it were not the inhabitant continent unknown to the armorers equipped those doughty knights in plate and mail, one could hardly doubt that the steel amor of the bimans had been copied from the scal or bony panoply of the quadruped; the principal feature in both systems being the control of the upper and lower persions of the proper of the proper and lower persions of the proper and persions of the persions of t defence of the upper and lower portions of the body by solid and inflexible cuirasses as connected by flexible coverings t central regions, strong enough to give pe tion, yet pliable enough to permit active short and stout, covered with scaly pla nished with powerful claws for burrowin habitations, and guarded, so far as to the kee by the defending bucklers; which descends low as to make a complete defence to the bell of the animal, which is covered only with a rough skin, from which originate a few leng coarse hairs, and a partial one to the thighs and knees. Except in one species, which will be named hereafter, the armadillos are devel to the short above mantituded and a few lengths. of hair, save that above mentioned, and a straggling bristles, which proceed from the ner skin, between the jointed plates of the h bar region. The tails of all the species but are armed with annular bands similar to the connecting the bucklers, and, in all, are ad to a notch cut out of the posterior buckler order to receive them. The teeth of the ar order to receive them. The teeth of the ard dillos are of simple cylindrical form, vary from 7 or 8 to 17 or 18 in number, on each of each jaw, and are so arranged, having is stices between them, that when the massi closed they shut one into the other, like to of a steel-trap. They have variably, in the ferent species, 4 or 5 toes on their force feet, and in the first feet seed. invariably 5 on their hind feet. small, their ears erect and pointed; have clongated snouts, like those of t ground-mole, to enable them to turn th ground-mole, to enable them to turn the in search of roots or worms, which or portion of their food. They are meturnal in their habits, though a few or cles go abroad by day; perfectly important in their habits, though a few or cles go abroad by day; perfectly important in their known to bits, or attempt fence; but when pursued immediate mence burrowing, which they do upower and rapidity, that if they have start, they easily evade their pursuasses.

themselves to any depth in the ground, from which they can only be expelled by introducing moke or water into their subterranean galleries So tenacious is their hold on the earth, when endeavoring to escape, by their strong, curved claws, that, if seized by the tail, they will leave it in the hand of the captor rather than forego their grasp. The ordinary food of armadillos consists of fallen fruits, roots, worms, ants, and carrion. Azara states that where armadillos abound, ants are never found, since those animals break into their hills and devour them as mais break into their hills and devour them as greedily as do the true ant-esters. They are also aid to break into the graves and devour the dead bodies, unless protected by brickwork. Their grinding teeth enable them only to feed on soft substances; and, therefore, they can devour flesh only when putrid. Abundance of this disgusting food they find, at all seasons, on the pampas of South America, where thousands of cattle are slaughtered weakly for the sake of of cattle are slaughtered weekly, for the sake of their hides alone, and left to putrefy on the plains. On this food the armadillos become plains. On this food the armadillos become immensely fat, when they are esteemed a great delicacy, not only by the Indians, but by the Spanish and Portuguese residents; and are served up, roasted whole in their shells, as one of the choicest culinary luxuries of the country. The armadillos were formerly classified according to the number of the jointed bands between the more solid portions of their armor; and were named after the same supposed characteristic, as it might be, the 8-banded, 8-banded, or 16-banded armadillos. It has subsequently, how-ever, been ascertained that the number of bands is not a specific distinction; but varies according to age, sexual difference, and, perhaps, individual formation. They have, therefore, been arranged by Cuvier in 5 small groups, according to the arrangement of their teeth, toes, and other structural differences. 1. The cachicames; with 4 anterior toes, 7 teeth on a side, above and below, a pointed muzzle, and a long, annulated tail. 2. The aparas; with toes and tail as the last species, but with 9 or 10 teeth on each side, above and below. This animal has, also, the power of rolling itself into a ball like a hedgehog, in which condition it has been thrown over precipices without receiving any injury. 3. The encouberts; with 5 anterior toes and 9 or 10 teeth, throughout. In addition, and 9 or 10 teeth, throughout. In addition, however, they have 2 teeth on the intermaxillary bones of the upper jaw resembling incisors, in which they differ, not only from all armadillos, but from all the order **edentata.* 4. The kabassous; which have 5 toes both before and behind, but the claws obliquely arranged, so as to give them unusual power in burrowing and clinging to the soil when seized. They have 9 or 10 teeth, throughout; and their tails are undefended by armor, as in the other species. 5. The priodontes; or last subdivision of the armadillos, in addition to the unequal toes and enormous claws of the kabassous, have from 22 to 24 small teeth, throughout, on each side of all the jaws. Of the cachicames, or first

division, there are 3 species; of which the commonest is the dasypus peba, or black tatu of Paraguay. It is about 16 inches in length, and was originally known under the appellations of the 7, 8, and 9-banded armadillo; 3 species being made out of 1. The other species of this group are the mule tatu, so called from the length of are the mule tatu, so called from the length of its ears, and the tatu verdaduro, hardly distinguishable from the last, except by the breadth of the movable bands, and the size of the croup buckler. Of the aparas, there is but one species, the mataco, which has, in general, but 8 bands and a short, blunt tail, covered by a single horny crust. The encouberts have 3 species; the poyou, or yellow-footed armadillo, which has, usually, but 7 or 8 movable bands. which has, usually, but 7 or 8 movable bands, and is easily known by his triangular snout, flat body, and short legs; the hairy armadillo, remarkable for its more copious growth of bristles from between the movable bands, and from its practice of burrowing into the bodies of dead horses, at whatever spot is first decomposed, and remaining within them until all the flesh is consumed, and nothing left but the skeleton and hide; and, lastly, the pichiy, which is the smallest of all the armadillos. The kabassous has but one species, the tatouaay, or wounded armadillo, so called by the Indians from an idea that the scaly covering of its tail, which is na-ked and looks raw, has been torn off by vio-lence. The last subdivision of armadillos, the priodontes, has, likewise, but one species, the dasypus gigas, or great armadillo of Cuvier. It is remarkable for its size, being 3 feet 3 inches in length; for its movable bands, 12 or 13 in number, composed of rectangular plates; for the thickness of its tail at the base; and for the prival line of the scales hy which it is defined. spiral lines of the scales by which it is defended. All the armadillos are inhabitants of South America, being found dispersed from Guiana and Brazil, over the pampas of Buenos Ayres and south as far as Paraguay. For an animal For an animal of so unwieldy a form and so short-legged, the armadillo runs with remarkable speed, easily outstripping a man; and, what is still more outstripping a man; and, what is still more worthy of remark, although the females in no species have more than 4 mammæ, and in some but 2, they invariably produce 6 or 8, or even 10, young at a birth, bearing but once in a sea-son—the former feature being almost an anomaly in natural history; as the number of the young produced at a birth, in any species, may be calculated, generally, unless in exceptional cases, by the number of teats on the dam, almost to a certainty.

ARMAGEDDON. Within the ancient territorial limits of the tribe of Manasseh was the celebrated Mount Carmel, at the foot of which, and on the western border of the great plain of Esdraelon, lay the city of Megiddo, which, true to its magnificent name ("the city that spoils"), had been the witness of many sanguinary and disastrous conflicts. Robinson, in his "Biblical Researches" (1838), expressed his conviction that the city now known as Leijûn, and to the Romans as Legio, occupies the site

of the ancient Megiddo. This conviction was strengthened by his last visit to the same region in 1852. The opinion of Dr. Robinson is grounded on the similarity of the topography assigned to Megiddo by the Scripture writers with that of Legio, as described by Jerome and Easebius, and with that of Legion; as also on certain architectural remains found by him in the latter city. If Megiddo is at length identified, we find in its topography a reason for its renown in the wars of the Holy Land, as also for the fact that the Israelites, although so aggressive, never willingly joined battle on the plains of Esdreelon, and when they did, were almost always unsuccessful. On this were almost always unsuccessful. On this plain, "by the waters of Megiddo," took place the battle of Kishon, whose result is celebrated in the refrain of Deborah and Barak, the battle of Jezreel, in which Gideon triumphed over the Midianites, the battle of Gilboa, where Saul was defeated and alain by the Philistines, and finally, the battle of Megiddo, in which Josiah experienced a similar fate at the hands of Pharach Necho. Megiddo and Esdraelon are classical and in the bid and a similar fate at the hands of Pharach Necho. sic ground in the history of war, consecrated to strife from Joshua to Napoleon—for here, too, was the last fleree fight of the crusaders with the victorious Saladin, and here Bona-parte defeated the Syrians in 1799. Armagedparte defeated the Syrians in 1799. Armageddon was not probably the name of any particular mountain peak, but the general title applied to the elevated table-land of Esdraelon, and so called because Megiddo was the principal military post of the entire plain, the term Ar-Mageddon signifying "mountain of Megiddo." Armageddon was, therefore, the great battle field of Palestine. In the mountainous must the Israelitas gained a speedy possession, north the Israelites gained a speedy possession, but the superior cavalry of the level south defended the occupancy of the original owners.

Armageddon was the boundary line between the four. How beautifully in this line between the fore. How beautifully in this light does the Apocalyptic vision (Rev. xvi. 16) describe God as summoning his fore to a place called Armageddon, to "the battle of the great day of God Almighty."

ARMAGH, a city, borough, and parish of Ireland, capital of the county of Armagh, and the archiepiscopal seat of the Irish primate. It is well built, has a public library and an observatory. Between the 5th and 9th centuries there was here a celebrated school of divinity

there was here a celebrated school of divinity and letters, frequented by great numbers of students. Pop. 8,849.

ARMAGNAC, the name of an ancient family of Gascon sovereign princes. Very powerful during the 14th and 15th centuries, they were finally broken down by the implacable Louis XI. Some of them deserve to be specially noticed. I. John I., count of Armagnac, sided the count of En, high constable of France in the war against the English, in Gascony and Guyenne; was president of the estates of Langueduc in 1355, and refused to pass under English dominion after the treaty of Bretigny; made war against the count of Foix, who took

him prisoner; joined the Black Prince to establish Don Pedro IV, on the throne of tile, and died in 1878. II. BERNARD VII. 2 himself known by his enterprise and and in southern France; but when the mark Louis I., duke of Orleans, brother of Cl., by the emissaries of John the Fee VI., by the emissaries of John the aduke of Burgundy, left the Orleanists with chief, he married his daughter to young of Orleans, and became the leader of the banceforth assumed the a tion which henceforth assumed the me Armagnac. He succeeded in seizin Armagnac. He succeeded in seizing on Pari which he governed with an iron rule. At he the Parisians became tired of his tyranay, as by treason delivered the city into the hands of L'Ile-Adam, one of the Burgundian characteristic betrayed by a mason, to whom he had confide and was put into prison. A few days has June, 1418, the jails were mobbed by the Burgundian populace, when all the Armagna were murdered, Bernard among the rust.—III JOHN V., son of John IV., born toward LII JOHN V., so of John IV., born toward the uncontrollable passions, and even went so far a made himself notorious by the ranhmess of his uncontrollable passions, and even went so far a to marry his own sister, Jane Isabella, who he been engaged to King Henry VI. of Enghand This monstrous crime was made a pretent by Charles VII. for depriving him of his possessions, which were afterward restored to his by Louis XI. Notwithstanding this kindsess John entered the league of the public weat and Louis resolved to take revenge on him The count was obliged to seek a referse has The count was obliged to seek a refuge gon. A few wasn't gon. A few years later, he succeeded ag regaining possession of his territory by estimate alliance with the duke of Guyens younger brother of Louis XI. The ferber of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted a harman and the control of the king was avhanted and the control of the king was avhanted and the control of the king was avhanted and the control of the control of the king was avhanted and the control of the king was exhausted: he sent a or the king was exhausted; he sent against the count the cardinal of Alby, who besinged John the castle of Lectoure, forced him to surrounder, and had him perfidiously murdered under, and had him perfidiously murdered under the eyes of his own wife. The unfortunate woman herself being pregnant, was obliged the drink of a poison which killed both herself as her unborn child, 1478.

ARMANIL CHARLES MARGONIA LA Proposition of the property of the

ARMAND, CHARLES, marquis de la Rosse a French officer, who served in the American army during the revolutionary war. can army during the revolutionary war, received the commission of colonel in 1777. In 1781 he went to France to supplies, but returned in time to join army at Yorktown. In 1783, at the station of Washington, congress gave his appointment of general of brigads. He war are turned to his native country, and part in the French revolution. He was a part in the French revolution pure in the French revolution. He was put the bloody massacres of La Vendie, by hearing of the execution of Louis EVL completely overwhelmed; his health gave and he died Jan. 30, 1798.

ARMANSPERG, JOSEPH LOUIS, count president of the resource instituted. a. He t

ARMANSPERG, Joseph Louis, or president of the regency instituted ever after her independence of Turkey we lished, born Feb. 28, 1767, in Lower died April 2, 1988. He studied at

versity of Landshut, and in 1808 entered the civil service. In the wars of 1818, '14 he was commissioner of Bavaria in the allied army, and belonged to the board which governed the compared regions on the Rhine. In 1815 he participated in the congress of Vienna, was one of the plenipotentiaries with the allied army during the occupation of France, and administered a large district of that country. From 1816 to 1828 he occupied various elevated offices in Bavaria, and gave proof of great activity, decision, and organizing capacity. In 1825 he was chosen president of the chamber of deputies, and became leader of the moderate opposition. King Louis, on ascending the throne, intrusted Armansperg with projecting and carrying out various reforms, and finally made him his secretary of the treasury and of foreign affairs. He was one of the founders of the German Zollverein. He constantly cared for the advancement of the positive sciences. He was ever a stern opponent of the Oatholies in Bavaria, both in the royal council and in the chambers. In this conflict he forfeited the confidence of the king, who was led to believe that Armansperg aimed to make a tool of the sovereign. He then retired into private life, but was recalled by the king to take the regency of Greece during the minority of King Otho, according to the protocol signed May 7, 1832, in London, by the great powers. With his royal ward he landed in Nauplia toward the sand of Jan. 1838. He was created chancellor of state, and ruled until 1887, with almost limitless power. His administration was in many respects beneficial, but he finally became unpopular with the nation, the sovereign, and the foreign diplomatists, then all-powerful in Athens, Sir Edmund Lyons, the English minister, alone excepted. He was dismissed in Feb. 1887, left Athens in March, returned to Bavaria, and retired to country life on his estates.

ARMATOLIO (Mod. Gr. dopuarolion, land of arms), the name given to 13, or, according to others, to 17 districts, situated amid the mountains of northern Greece, and subject each to the authority of an armatol. The armatols were Christian captains who, after the establishment of the Ottoman empire in Europe, succeeded in maintaining themselves independent in the possession of inaccessible mountain defiles. The armatolics of Macedonia, Epirus, and Thessaly, were the last refuge of the liberty and independence of old Greece, and they preserved, during centuries, the germ of the regeneration of the Hellenic nation. The warlike chiefs of these districts became more and more formidable to the Porta, and their bold attacks obliged the pashas, near the beginning of the 17th century, to treat with them, and upon condition of their peaceful conduct to allow their right to govern their mountain country. These advances encouraged the armatols, who daily increased in power, till under their direction the war of Greek independence broke out. Those

of the armatol chieftains who most distinguished themselves in this war, were Eustrates, the leader of 500 men; Zongas, killed in 1827 before Athens; Karaiskaskes, leader of 600 men, and who perished under the walls of Athens; Kaltzodemos, killed before Missolonghi; Odysseus, Karatasso, and Marco Bozzaris, the commander of the Suliotes.

ARMENIA, a country occupying the northeast portion of Turkey in Asia, lying S. E. of the Black sea, having a trend of N. W. and S. E., with an angle of 45° from lat. 87° 80′ to 41° 81′ N., and comprising an area of 49,096 sq. m. Ancient Armenia was somewhat more extensive though its houndaries expecially the sq. m. Ancient Armenia was somewhat more extensive, though its boundaries, especially the western and southern, for lack of natural determinations, were in almost constant change during the political struggles of which it was the arena for nearly 2,000 years. Taken in a wide acceptance as to time, ancient Armenia may be bounded, or rather indicated, as extending from the eastern side of the Euphrates (until 190 B. C., a part of Armenia, known then as Armenia Minor, was on the west of the Euphrates; soon after the division it was absorbed into the neighboring states) to the Koordistan mountains, and from the Black sea to the Buhtan, which divided it from the country of the Karduchians. Thus indicated, Armenia the Buhtan, which divided it from the country of the Karduchians. Thus indicated, Armenia includes the eastern basin of the Euphrates so far south as the modern town of Bir in Mesopotamia, the northern half of the valley of Tigris, the western slope of the Koordistan mountains, the entire basin of the Tchoruk, and the head-water valley of the Koor. It is an elevated table land (being part of the great plateau of Iran), supporting on the western slope of the Koordistan mountains the lake Van, at an elevation of 5,467 feet above the sea-level. It is well watered by 5 principal rivers (Euphrates, Tigris, Koor, Aras, and Tchoruk), and their tribu-taries, which find their way into the Black and Caspian seas, and the Persian gulf, traversed by 8 lofty chains of mountains (Bin Gheul, a branch of the Caucasian in the north, the Taurus in the south, and the Koordistan on the east), and interspersed with numerous lakes. In geological aspect it gives indications, by the trap and porphyritic composition of its mountains, and the evident volcanic character of the higher peaks, that it has been the subject of a mighty up-heaval. Volcanic action is not yet extinct, an eruption of Ararat having occurred in 1840. Armenia abounds in silver, lead, iron, copper, rock salt, and mineral waters. Trap and porphyry are principally confined to the north— the salt formations are central. The principal lake is Van, which lies in a basin formed by the Koordistan, Kareh, Amadiah, and Taurus mountains, and has an area of 2,000 sq. m. The climate of Armenia is severe. Winter lasts The climate of Armenia is severe. Winter lasts from October to May, the summer is short and warm, and the transitions of temperature are abrupt. It is, nevertheless, generally regarded abrupt. It is, nevertheless, generally regarded by travellers as a healthy region. Its agricul-tural resources are good, but a large portion of

the land is unimproved. It is best adapted to cercal products and grazing. Its principal cities are: 1. Erzroum, situated on the head-waters of the Kara Su, founded in 415, an important military station under the Byzantine emperors, and now under the Turks, and a halting place for caravans. Pop. 40,000. It is in the present reshalic of the same name. 3. Kars, situated in the pashalic of Kara, 100 miles east and north of Erzroum, on the head-waters of the Aras, and has a military importance. It was cap tured by the Russians in 1855, but was restore by treaty, soon after. Pop. 12,000. 3. Moosh, situated on the Murad Chai, 83 miles south of Erzroum, in the pashalic of Van. It has some manufacturing importance, and is the seat of some western trade. Pop. 7,000. 4. Bayazid, 4. Bayazid, attnated in the north-east part of the pashalic of Van. Pop. 2,000. 5. Van, on the lake of the same name. Van has some importance from the manufacture of cotton fabrics, the raw cotton being imported from Persia. raw cotton being imported from Persia. 6. Battoum, situated on the Black sea, near the mouth of the Tchoruk, in the pashalic of Kars. 7. Bitlis, on an affluent of the Tigris, in the pashalic of Van.—The Armenians call themselves Haiks, from Haig, whom they assign to the time of Belus (2200 B. C.), and consider a descendant of Japhet. They relate that Haig emigrated to Armenia on account of the oppressions of Belus. Herodotus considers of these Armenians of Physician origin. Strabo of These Armenians of Phrygian origin, Strabo of Thessalian. They derived the name of Armenians, or Aramides, from Aram, who lived about 800 years after Haig, and, by his warlike exploits, first gave his subjects political importance, and so a name. But they soon lost their political importance, under his son, and became tributary to Assyria, until the middle of the 8th century B. C., when they again became independent. This independence they maintained until set I. ent. This independence they maintained until 325 B. U., when they became subject to Macedonia for 130 years, and again (190 B. C.) free, availing themselves of a defeat of Antiochus the Great by the Romans. Armenia was now divided into Major and Minor Armenia nobles, Artaxias and Zariadras. Zariadras soon lost the Artaxias and Zariadras. Zariadras soon lost the independence of Armenia Minor (in the fall of Mithridates); Armenia Major remained quietly under the government of the Armeida until 84 B. C., from which time she became the subject and arena of perpetual struggles between the Romans and Persians, with various fortunes to herself, until A. D. 387, when, by compact be-tween Theodosius and Sapores, the disputed territory was peacefully partitioned. Over policy, appointed as viceroy a descendant of the Aracids. But in less than 40 years this last vestige of independence passed away, and Persia directed her energies to eradicate Christian religion from her subjugated province, and substitute in its place the doctrines of Zorvaster, and then religious persecution added its weight to political oppression. But the distresses of Armenia did not end even here. From 633 she was the arena of a violent straggle between the Grecian and Mohammedans elatined powers, till 857, when the Mohammedans elatined possession. Soon after, through the intrigues of Ashdod, commenced the Bagratish dynasty, which continued till 1079, when a was brought to a close by the assessination of the last prince of the line, and Armenia sufficient a triple dismemberment to the Greeka, Turin, and Koords. An inconsiderable emigration afterward established a principality north of Cilials, important only in history from the aid it readered to the crusades, a century later. This principality was subjugated by the Mamahabas in the 14th century, and thus ends Armenians have been simply plunder for any nation which has had a surplus of brute force to expand. Overrun by the Ottomans (1583), by the Persians (1604), Armenia has arrived at a country in the control of this division Mount Ararat is the departing point, the Russian power extending to the north and east, and forming her trass-Concasian territory—the Persian to the cent and Turkey to the north and west, making the pashalics of Erzroum, Trebizond, Van, Kan, and Diarbekir.

ARMENIAN CHURCH. Though Ch ity was known in Armenia so early as the I century, it was not until the 4th century that it may be regarded as having obtained a football. In 302 Tiridates, the last of the Armer many of the Armenian nobles, ember Christian faith, and in 319 he was conf the pontiff of Armenia. Christianity thus I the established religion of the land. In th e Armenian church was at first Au adopting the Apostolic, Nicene, and Athen-creeds. Later in her history (6th cont Monophysitic views were introduced into menia by Jacob Barodeus, which led to a set in the church, the Monophysitic branch was the majority, of course separating selves from the communion of the erating th church. The two parties were violently posed to each other, though differing but all y in opinion. The schismatics affirmed ly in opinion. The schismatics after absorption of the human nature of Ci the divine—the procession of the He the divine—the procession of the Hely from the Father alone—redemption from rrom the Father alone—redemption final sin by the secrifice of Christ—its ation by baptism—and redem sin by penance and surioular c adhere to the 7 secrements of the R perform baptism by a trine imm the mediation of saints, the add ubstantiation, and ad and tran communion in both kinds to laymen.
purgatorial penance, and yet think the
the pious will help the souls of the
Their faith has evidently less of the at
that of the conservative party. The at of the conservative party.

pressions of Armenia, have scattered the Armenian church in a second Jewish dispersion. But in church polity they are subject to a central Ostholicos or patriarch. Since the Russian compest of Eriwan, the Catholicos resides at Eriwan, is proposed by the archbishops from among their number, and is appointed by the emperor. There are seven degrees of the Armenian clergy: 1, the priesthood; 2, the archdescens; 3, the subdeacons; 4, the torchberers; 5, the exorcists; 6, the readers; 7, the doorkeepers. The offices of these several ranks are sufficiently indicated by their titles. Owing to the lack of asceticism in the Armenian church, cloister life is not so frequent as under the Roman Catholic faith. The piety of the Armenian church has, for the last 100 years, taken a somewhat practical form of development, in the labors of the Mechitharists to circulate religious knowledge among the members of their communion, from their publishing establishment in the lagoons of Venice. The Mechitharists sprung more particularly from the conservative branch of the Armenian church. The labors of Protestant missionaries are also extending among them.

are also extending among them.
ARMENIAN LITERATURE. The Armenians, from the earliest period of their existence, through all the political disasters which have signalized their history, have always exhibited a strong love for a national literature, and a persistent tendency toward its development. Until A. D. 319, the Armenians were Parsees, at which time the Christian religion was intro-duced among them by Gregory the Illuminated. e literature of Armenia, until the introduction of Christianity, is contained in a few songs or ballads, which have been collected by Moses of Chorene, and Armenian civilization was only that which could be wrought out by the Zoro-asterian philosophy. The new faith of the Arthat which could be wrought out by the Zoroasterian philosophy. The new faith of the Armenians operated favorably and powerfully on
their literature. At the epoch of the Christianity of Armenia, the Grecian language and
learning were exciting the profoundest admiration and esteem of the eminent divines, and of
the church generally. The attempt was making to bring the results of Grecian philosophy to the aid of Christian theology, as the fruit of which so many modifications crept into the popular faith. The natural result of this great attention to Greek literature was immediately manifest on the literary history of Armenia. multitude of Grecian works were translated, commented upon, and their philosophy adopted. Thus, we may say that Armenian literature erected itself upon a Grecian basis. About this time the alphabet of 88 characters, in present mee in the Armenian language, was invented by Mesrob, or, according to his own account, was received by him from heaven in a dream. In connection with its introduction the language nsturally underwent many modifications both in orthography and syntax, and as a proof of the strong Grecian current that was setting in upon the Armenian mind, the language has re-

ceived its most marked features, syntactical and orthographical, from beyond the Archipelago. The ulterior purpose of Mesrob, in reducing the language to a new alphabet, was the publication of an Armenian Bible. This was commenced A. D. 411, and was the work of nearly half a century with Mesrob and his three sons, whom he had educated especially for the task Many works were about this period translated from the Greek into the Armenian tongue. The completion of Mesrob's Bible gave a powerful impulse to Armenian learning, while it also stamped upon that learning a religious character which it has never lost. Then came character which it has never lost. the Monophysite doctrines into the Armenian church, through the missionaries of Julian of Halicarnassus, and the consequent separation of the Armenian Christians from the communion of the Greek church by the council of Chalcedon (451). From the 6th to the 10th century is the golden age of Armenian literature. The cause of its temporary decline at this period is to be found in the invasion of the Arabians in 855, when many of the inhabitants were con-verted to the Mohammedan faith, and many more compelled to suffer persecution for their refusal to abjure Christianity. For the next 200 years Armenia was the subject of a bitter contention between the Greeks and the Turks. But when after the fall of the Bagratide dynasty, and the subjugation of Armenia to the Greek empire, the new Armenian principality was established on the Mediterranean, literature again revived, and until the 14th century was in a thriving condition. At this epoch (1875) the territory of the new principality which had until that time been held by the Mamelukes, was wrested from them by the Ottomans, and the Armenians were again driven from their homes, and scattered, like the Jews, among the property of the earth. From that time, the nations of the earth. From that time, literature of the Armenians has almost steadily declined. After the migration, they established themselves in Russia, Germany, India, Asia Minor, Syria, and Egypt. Amid all the disadvantages of their position, they nevertheless preserve not only a great unity of religious fields the the communication of the stable faith, but the same unwearied desire to sustain a national literature. But it is at present limited to the somewhat unproductive though laudable efforts of the Mechitharists, who (1700) established themselves on a lagoon in the Venetian gulf, where they have a printing press, from which, during the last century and a half, they have issued several translations of important religious works, such as those of Pmio, Onry Soston, and St. Basil. The convent and printing establishment of these monks is on the island of San Laza-The monks are admirable scholars. They works, such as those of Philo, Chrysostom, now publish a semi-monthly paper in the Armenian language, which is circulated and read among the scattered families of the Armenian faith. The articles for this paper are original, and written by the inmates of the institution. They are also from time to time translating and publishing the standard works of France. and publishing the standard works of France,

Italy, England, and Germany. A recent traveller says that they print the Armenian creed, which differs little from that of the Roman church in 27 different languages, all in one volume. "I was not a little surprised," he says, "to find 'Uncle Tom's Cabin' translated by the young monk who showed us through the establishment. The library of this institution has some fine manuscripts and books. We were shown a manuscript copy of the scriptures in the Armenian language. It was most beautifully executed." (Edwards's "Random Sketches and Notes of European Travel.") The Armenian literature is not rich in poetry. A little sacred poetry is all it can boast. The Armenian language is by some writers set down as an original tongue, by others a mixed dialect from 4 languages, and so comparatively modern. It is lacking in euphony, owing to an abundance of consonants, deficient in distinctions of gender, redundant in case, inflections, and less cultured languages, like the northern and less cultured languages in this convent at San Lazaro. His study, table, and chair, are shown to visitors. His teacher died in 1854.

ARMERO Y PENERANDA, Francisco, a Spanish admiral and statesman, born in the beginning of the present century, commenced his naval career as midshipman in 1822. He was present at the 2d siege of Billboa by the Carlista, during the civil war between them and the partisans of Queen Christina, and for his conduct on that occasion was promoted to the rank of licutemant. He was soon after made captain, and raised to the command of the naval division of Catalonia. In 1840 he was minister of marine, and accompanied the queen regent and Queen Isabella to Valencia. After the events of Barcelona had compelled the queen regent to quit Spani, he retired from political life, but returned to it in 1843, and was minister of marine under the administration of Narvaez, and afterward under that of Isturitz. In 1848 he was appointed to the command of the Spanish squadron at Cuba. On his return to Spain, he took a place in the Bravo Murillo cabinet as minister of marine, but resigned the office a short time before the dissolution of the ministry. In 1855 he attained by seniority the rank of chief admiral of the flext, and in 1857, on the retirement of Narvaez, became prime minister of Spain. His character for moderation, frankness, and integrity, and his eminent military and administrative services, have won him a high degree of respect in his native country.

and adiamistrative services, have won min a high degree of respect in his native country. ARMFELL. I. Kam Gustar, baron, a Swedish geter d, bern Nov. 9, 1666, in Ingermanlaid, at that time a province of Sweden, died Oct 29, 17.6. As a young man he served in the army of France more than 12 years greatly distinguishing himself by bravery. He took part, attenward, in the wars of Charles XII., served of P. Jowa, and directed the heroic deferment in languages.

battle of Stor-kyro, Feb. 15, 1714. He commanded an expedition against Norway in 1718, but was repulsed in endeavoring to capture Charle After the death of attempted to effect a retreat across the Nor wegian mountains, during the severe winter d 1718-'19, and was overtaken by a storm in which more than 600 of his men were frozen to death. Notwithstanding his repeated mister-tunes, he was appointed, in 1735, commanda-in-chief of the Finnish army. H. Gustar Mo-nutz, baron, a Swedish general born at Fava in Finland, in 1757, and died at Tsarskos-Sale He distinguished himself in the w against Russia, and was a great favorite with Gustavus III. He rose still higher in his favor by his efforts to weaken the power of the are-tocratic party to which Gustavus was stressously opposed, and by his honorable milit career. Gustavus, before he died, not only appointed him governor of Stockholm, but also made a codicil to his will for the purpose of naming him member of the council of regary during the minority of Gustavus IV. But Ge tavus had not sufficient strength left to sign his name in full to the codicil; he could only put his first initial to it. The duke of Sodermannland who had been previously ramed in the will in connection with the regency, available in the different strength of the selection of himself of the defective signature of the codes to repudiate it, and actually threw it into the Nor was the duke contented with destroy ing the codicil and nullifying the nomination of the king; he could not forget the preference which had been shown to Armfelt. There was still another circumstance which was calculated to incense the duke against Armfelt. He was in love with a young noblewoman connected with the court of the name of Von Rudenskald. and had reason to believe that the young ledy, far from loving him, was in love with another, and that other the same man who had alienes from him the good will of his king. The duke who, during the minority of Gustavus IV., was omnipotent in Sweden—was bent on vengence. He caused the young lady to be sent to the house of correction, while Armfelt was dismissed from his office of governor and removed to Naples, ostensibly as ambassador of Sweden at the Sicilian court, but really for the purpose of getting him out of the way and consummating his ruin during his absence. This was done by indicting him for treason, branding him as a criminal, confiscating his property, and by thing away from him his titles and his privilege as a nobleman. A requisition for his arrest was as a nobleman. A requisition for his arrest was sent out to Naples, and it was even said that an attempt was made upon Armfelt's life has murderers in the pay of the duke. He succeeded in making his escape from Naples and proceeded to St. Petersburg, but, as he was not very favorably received by the Czar, he has Russia for Germany, where he remained until 1799, when, on the advent of Gustavas IV. to the throne, he was allowed to return to Stockholm, reinstated in his former position,

appointed minister to the court of Vienna, and in 1807 general of infantry. After having taken a leading part in the war in Pomerania, and in 1808 against Norway, he resigned his office, but intended to remain a Nockholm. when a liaison with the famous countess Piper involved him again in difficulties with the Swedish police. He put himself under the pro-Swedish police. He put himself under the protection of the Russian ambassador, who induced him to enter the service of Russia. He was raised to the dignity of count by the Russian government, appointed chancellor of the uni-versity of Abo, member of the Russian senate, and president of the affairs of Finland, in which latter country he died. Though he possessed many eminent qualities, he would never have become so extensively known to fame if it had not been for the persecution to which he was for some time subjected.

ARMIANSKOI-BAZAR, or BAZAR OF THE ARMIANGROI-DAZAR, OF DAZAR OF THE ARMIANS, a town in the south of Russia, government of Taurids, on the principal road from Russia to the Crimea. Upward of 20,000 cartloads of salt annually pass through it from the salt lakes of the Orimea for the supply of the south of Russia.

ARMIGER, in Roman antiquities, an armorarer. In England it is the Latin word for

an esquire, as miles is for knight. All such are allowed to have a coat of arms.

ARMILLA, in Roman antiquity, a bracelet worn by Roman females and warriors, the former for ornament, the latter as rewards for distinguished services.—An ornament worn on the ancles by Africans and Asiatics; also the ring on the hinge of a door; also an ana-tonical term with the ancient anatomists, sig-nifying the coverings of the 5 nerves of the

ARMIN, ROBERT, an English player, author, and associate of Shakespeare. He was a member of Shakespeare's company of players, and his name appears in the original list of the performers of Shakespeare's plays, given in the first folio edition of his works. He translated a small Italian novel, the "Italian Taylor and his Boy," and wrote a dramatic piece entitled the "History of the Two Maids of More Clacke;" and he is alluded to by Nash in 1592 as a and he is alluded to by Nash in 1592 as a writer of stories and ballads. His only work which at present has either interest or value is entitled "A Nest of Ninnies, simply of themselves without compound. Stultorum plena sant omnia. By Robert Armin, 1608." This selves without compound. Stultorum plena sunt omnia. By Robert Armin, 1608." This tract is composed of dull anecdotes of the domestic fools and jesters of the time, and is interesting as showing something of the real meresung as showing something of the real life from which the great dramatist got the ele-ments of the fools in his plays. Only a single copy of the original edition of this book re-mains, which is found in the Bodleian library. It was reprinted by the Shakespeare society in

ARMINIANS. The Arminian movement in theology may be regarded as antipodal to the Calvinistic. It takes its name from James Ar-

minius, but the doctrines of this theologian were more Lutheran, and less anti-Calvinistic than those of the Arminian party. It is difficult to trace the history of Arminianism correctly, it is so mixed up with the political and civil interests that were then occupying and disturb-ing the United Provinces, in their struggles with Spain. In a desperate juncture of their Spanish difficulties, the Netherlands had sent an embassy both to the French and English courts, embassy both to the French and English courts, and were about equally divided at home as to which of these powers they would offer the sovereignty of the provinces. The counsels for the English throne finally prevailed, and a deputation headed by Barneveldt, the grand pensionary, made a formal offer of the Netherlands to Elizabeth. The course pursued by the English court on this offer, divided the popular sentiment of the Netherlands into two great. sentiment of the Netherlands into two great sentiment of the Netherlands into two great parties: the military, acting under Maurice the Stadtholder, the successor of William, and the civil, under Barneveldt. Barneveldt had early espoused the cause of Arminius, against the Gomarists (though himself personally more in sympathy with Gomarus), while Maurice, though an Arminian in sentiment, supported the Calvinistic theology. Thus did the theological forces of this movement lend themselves to political intripues, and heighten the animosito political intrigues, and heighten the animosi-ties of political strife with sectarian bitterness. Arminianism became identified with the cause Arminianism became identified with the cause of popular liberty, while Calvinism lent itself to Maurice, in the attempt to establish him as the sovereign of the provinces. The Arminian party drew up and presented to the states of Holland (1610) a remonstrance, and were consequently termed remonstrants. To accomplish purpose, Maurice, who was sustained by the majority, bent his energies to securing the calling of a synod which should decide between the Calvinistic and Arminian parties, and was successful. The synod of Dort was convened for this purpose by the states-general, in 1618, nine years after the death of Arminius. At this synod, which was in session for 6 months, the Arminian cause was mainly defended by Simon Episcopius, though the Arminians were summarily expelled from the deliberations of the council, and allowed to appear only as an accused party. The Calvinistic party of course cused party. The Calvinistic party of course triumphed in a synod thus organized, the re-monstrants were condemned, their preachers deposed, Barneveldt executed, Grotius imprisoned for life, and Calvinism declared the ortho-dox doctrine of the reformed church. The distinguishing tenets of the Dort Arminians may be set down thus: 1. The divine election grounds on a foreseen personal faith, in the elect. 2. Faith, and sincere (though not perfect) obedience the conditions of justification and salvation, as the perfect obedience of Adam would have justified and saved him, because Christ's satisfaction makes up the deficiency in our own obedience. 3. That on account of the re-demption in Christ, none will be condemned for original sin. The Arminians were also called 114 ARMINIUS

Freewillers, and Semi-Pelagians, and later have been sometimes designated as Sociaians, not without cause. It is at least true that many Sociaians joined them. Arminianism is to be regarded only as a continuation of the anti-Nicene movement in theology, which commenced when theologians, no longer satisfied with asserting the existence of three persons in one tool, first began to inquire into the mode of this existence. Though Episcopius defends hims if against the charge of Sociaianism, and Arminianism was equally scandalized at being termed as Pelagian, yet this subordination of Arminianism to the Arian movement, in its widest sense, will be justified in the inevitable and organic sympathy historically exhibited between Arminianism and all the modified forms of the Arian tath. Pelagias and Augustine stood in the same artified to each other in the 5th certury, as Arminias and Calvin did 11 centuries later, and Calvinism was but a revival of Augustinism. In the Nestorian, Eurychian, and Monophysite controversies, the same organic sympathy is no less generally manifest, the Alexadrian school always being the champion of Augustinism and Trinitarianism, and the Artiochence espon ing the cause of Arianism, to this day, is infallibly Arminian, though the organic connection of the two is not so hamiliest from the distinctively Arminian side, at least in modern times. The large and powerful body of Methodists, both in this country and Europe, are Arminians, and yet Trinitarians, as truly as the Calvinistic or Augustinan dranch of Protestantism. Arminianism has not spread in to runany cat least, until very recently, under the arspaces of the Methodist miscenery society), owing to the prevalent religions of the Arminianism conservery society, wing to the prevalent religions of provential to the Calvinistic theology. The Engless church, since the time of Land, may be considered as inclining to the Arminian side. In their forms of government the Arminian charches are generally Episcopal.

considered as inclining to the Arminian side. In their forms of government the Arminian chardles are generally Episcopal.

ARMINIUS, or Henrays, James, born in Onde vater. South Holland, in 1560, died in 1569. Left an orphan in infancy, he was adopted by Endlines a clergyman, and later by Shemes. In his collegate studies at Leyden, he distinguished himself for theological learning. Courge there to to neva he maintained the same reputation, weller the tuition of Beza, but became an object of engage on to the university of account of his affect one to the phislessphy of Burnes, an epichent of the prodominant Arstotchausment Context. He therefore retried to Basel, which university offered him the decree of D.D. when he was 25 years old. He decreed the born, saying that of reservoid domains have details. He next went to be decreed to attend the lectures of Z Arcilla, and on the return to Amsterdam classes was retered of that place. Amsterdam was the

field of those mental conflicts through which Arminius attained the religious views that gave fame to his name and bitterness to his life. The Calvinistic doctrine of predestination had been attacked, and the church desired that Arminin should defend it, and also sustain the vi-Beza against the intralapsarians of Delft. He undertook the task, but before its completion he had travelled all the way from the prediction. nation of Calvin to the free grace of Arminias, and had entered upon the stormy sea of sition to the dominant faith of the times Nevertheless, because he rejected Pelagranism he was chosen, though reluctantly, professer at Leyden (1903) to fill the chair of theology vacated by the death of Gunius. But he went excited great opposition on account of his destrines, as may be seen by the amagrams, which, after as may be seen by the attagrams, which, after the custom of the times, were constructed on his name. He also opposed the requisition that the preachers should annually sign a please to abide by the doctrinos of the contession and the catechism. This brought down upon him a storm of persention from a set of real as in Holland, who urged the measure. In the pair the way chain to remark and firstill to a sepit he was plain, persuasive, and forcible in gramment, with something of acerbaty both in La public and private life, probably less constra-tional than the result of the strifes in which has sentiments involved him, in an age when the be distinguished from that of the the-descel school to which he has given his name. Nor s he to be regarded as in any special sense the originator of the Arminian movement in the ogy. His views more nearly coincided with those of Melanchthon. The faith of Armir as-ism was more distinctly defined by Episc 1728 at the synod of Port, 9 years, after the death of Arminius

ARMINIUS, in German Haustann, prince of the Cherusci, a German tribe, and the interact of Germany, been about 16 B.C. At that time the Romans were more and more extending their dominion over Germany, penetrating into the interior, constructing military reads and fortified camps, subduing some tribes, and making others their allies. Many of the Germans willingly entered the Roman military service, and acquired Roman culture, customs, and making others their allies. Among these were Armenius and his brother Flavius, who served the Romans on the Danube as leaders of an auxiliary body of the Cherusci. Arminius thus became a Roman citizen of the equestrian order, and mastered the Latin language, Roman military factica, and policy. Returning after several years to be country, he found it smarting under the irrangle and the exactions of Varus, a Roman governor, who among other oppressions obligate the Germans to submit to the Roman civil law and to conduct their private litigations before Roman judges and through Roman advocate. He determined to liberate his country, and if possible, to exterminate the oppressors, when

s numbered about 50,000 men. He organized an extensive conspiracy, and used the con-fidence placed in him by Varus to distribute several small detachments of Roman soldiers among different tribes, under the plea of main-taining better order among the Germans. He also prevailed upon Varus to change the direction of his march with the main body on the way to his winter-quarters on the Rhine. Thus Varus was enticed toward the Teutoburg forest, now partly the principality of Lippe and partly ian territory. Arminius, who accompa nied him on this march, suddenly disappeared and gave the signal for insurrection. The Roans scattered in the interior were murdered, nd the main body found itself surrounded on all sides by infuriated masses, among primitive forests, marshes, mountain passes, and impassable rivers. The Romans fought their way for 8 days, until almost all were exterminated, Varus himself taking his own life. From among the prisoners, the chiefs, civil and mili-tary, were sacrificed to the gods, the rest en-slaved. The Germans bored holes in the tongues of the Roman lawyers and judges, say-ing to them, "Now rattle away." This was the famous destruction of the Roman legions which filled the eternal city and Augustus its master with grief and shame. For several days Angustus would only utter the words, "Varus, give me back my legions!" Germanicus, however, marched from Gaul to avenge the fallen, and entered Germany, but returned, after a short campaign, the same year. Among the Germans discensions soon prevailed. Arminius carried off Thusnelda—celebrated afterward in German Arminius carried off Thusnelda—celebrated atterward in German minstrelsy—daughter of Segestus, and married her, but she soon fell again into the hands of her father. Next year Germanicus entered with fresh troops, relieved Segestus, who was besieged by Arminius, and liberated him, but the pregnant Thusnelda was made a Roman alave. Arminius now called the Cherusci and other tribes to arms. Germanicus marched acceinst him with 80,000 men and a large against him with 80,000 men and a large fleet on the Weser and in the Ems. He reached the spot where lay the whitening bones of the legions of Varus, and buried them with military honors. Arminius retreated until he had drawn the Romans into narrow passes, and then attacked them with such fury that Germanicus, having lost his cavalry, was obliged to retreat with great danger, and reached his vessels with difficulty; 4 legions under Cossina scarcely escaped total destruction previous to crossing the Rhine. The next spring Germanicus returned with an army of 100,000 men and about 1,000 vessels on the rivers. Beyond the Wesser in Westphalia between the present town Weser in Westphalia, between the present town of Hamelin and Rinteln, on a plain called the Woman's meadow, was fought the greatest battle between the Germans and Romans. The Germans were beaten, but nevertheless renewed the struggle next day, and obliged the victorious Romans to retreat. This was the last time that Roman armies invaded Germany beyond the

Rhine, and Arminius is therefore justly called the liberator. According to a legend, he disappeared in a mysterious manner during an interview on a half-built bridge with his brother Flavius, who remained attached to the Romans and tried to persuade his brother to return to them. But history says that Arminius, being proclaimed chief by the Cherusci and numerous other tribes, attacked Marbod the chief of the -an aggregate of various tribes in Marcomannithe east of Germany and on the Danuberival in pretensions to supreme power, who was supported by Inguiomar, the uncle of Arminius. After a violent and terrible struggle, whose theatre was Saxony, and a great undecided bat-tle, Marbod was abandoned by many of his partisaus, returned again to Bohemia, and finally fied to the Romans, leaving Arminius in undis-puted possession. For having attempted to exercise his anthority as strictly in peace as in exercise his authority as strictly in peace as an awar, a conspiracy was organized against him, and he perished by the treachery of one of his relations at the age of 37. Thusnelda, the wife of Arminius, their son Thumelicus, born in and he perished by the trade of 37. Thusnelds, the wife of Arminius, their son Thumelious, born in captivity, and Sigismund brother of Thusnelds, appeared as prisoners in the triumphal cortège of Cormanicus in Rome, A. D. 16. The lineage of the Cheruscian princes was extinct, with the exception of Italicus son of Flavius, brother of Arminius, who in the year 47 was given up by the Romans to the Cherusci at their request. Tacitus says that the name of Arminius was alive in the songs of the "barbarians of his time," and so it is still. It was the theme of many inflaming patriotic songs during the rising of Germany in 1813, '14, against the domination

of Napoleon.

ARMISTEAD, W.K., brevet brigadier-general in the U.S. army, and for many years chief of the corps of engineers, born in 1780, died at Upperville, Va., Oct. 18, 1845. He entered the army at 18, and throughout his military career was conspicuous for his devotion to duty and for high moral worth. In the campaign of 1840, '41, he commanded the U.S. troops in Florida.

ARMOR, a defensive covering for the head, limbs, and body, used as a protection in battle. The use of armor is almost as old as history itself, and appears to be of almost universal occurrence, among all tribes and peoples, savage, barbarous, or civilized, among whom war is one of the conditions of life, while fire-arms have not prevailed to such a degree as to render defences of that nature useless. It has been asserted by superficial writers, more given to turning antithetical periods than to ascertaining facts, that the earliest forms of defensive armor were the skins of wild beasts; and many pleasing paragraphs have been penned, representing that armor, after travelling through a complete circle, from the lion's hide of Hercules to the complete plate panoply of the 14th century, had returned to its starting point and original type, in the buffcoat of the troopers of the Commonwealth, and of the times of Charles XII.

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But of this there is no proof, nor indeed are there my reasons for believing such to be the case, except that the base of the ancient shield, as to this day it is among savage nations, was hard-ened ball's hide. The lion skin of Hercules is never described in the classics as armor, but us a clock or robe of military honor, worn either without the armor, or allowe it, as by the heroes of the lind; while the adaptation of the heads of wild beasts, welves, and heads of wild beasts, welves, and heads of wild beasts. ly, to the covering of caspies, was clearly a matter of decoration, worn in terrorem, and not of defence, like the hospard skin helmet-covers of the French dragoons of the present day, or the bear-skin crosts of the English life-On the contrary, from all historic eviguards. On the contrary, from all historic evidence, we find that, from the times of the Old Testament to the fall of the Housen empire, brouze, or brass, as it is usually termed, was the material of the helmets and body armor of all the principal nations of antiquity, their shields and bucklers being variously transfac-tured of many felds of balls hade bound and combossed with brass; of this charks covered with leather, and similarly bound with brass or iron and studded; of wicker-work sheathed with wild beasts' hairy hides; or of solld metal, usu-ally Corinthian bronze. The first form was that of the heroic buckler of Hemor, covering the champion from his chin to his ancles; the the champeon from his chin to his anches; the second, that of the oblong and externally con-vex shield of the legions; the third, that of the small shields of many of the oriental mations; the fourth, that of the record brones targe of the Hellenic and Miccelonian phalanx, of which these Hellenic and Miccelonian phalanx, of which these of the best quality were manufactured at Are so.

The use of iron or stiel, whether for definisive or effective arms, is comparatively recent;
and it would appear that, while the ancients possessed, like the Mexicans who is first discovering and it would appear that, while the ancients possessed, like the Mexicans when first discovered, the secret of tempering and herdering experient or frome, so that it would repel a swordlow or posseshriet without bering, and even carry a cathing object while her her, skill and should be fow to the prostol. The hybridistics with the ment discovered by higher as schonyards with the sword, but he qualities the tree ment discovered by higher as schonyards with the sword; but he qualities the test by terminal its foreign rational its little use in Greece, we are, with a truch later period, sword that said spear heads were made of copper or from, a to first leer instance, as the description of the medical straight and spear heads were made of the description than the first leer instances as the description of the point, surgical instruments, as applies, here and indicates varying hat lattle true means have and in the first her weapons probably a trade of the life the interest was the description of the first here was the description. I have use many of which are stall examples, if are to sample of weaking slop, will the lattle transfer and with the killship armore of the middle ages—perfectly competent to reof the middle ages-perfectly competent to re-

an arrow or javelin.—The first description of a complete paneply is to be found in the first back of Samuel, chap, xvii., in the account of G. Larh, the champion of the Philistines, or Phenimans of the Syrian coast. "He had an helmst of of the Syrian coast. "He had an helm t of brass upon his head, and he was arms-I with a mail, and the weight of the coat wa 5,000 shekels of brass; and he had greaves 4 brass upon his legs, and a target of brass upon his shoulders, and the staff of his spear was like a weaver's beam, and his spearhead we should be shoulders. ed 600 shekels of iron; and one bearing a shield went before him." The descript a above is almost identical with that given by Homer of the armature of the Greek, and Trojan leaders, before Hium, with the exception which is undoubtedly an error in the translation—of the coat of mail; since small, or character, was unknown to the ancients, and only came into use, with the use of wrought sted, when the northern tribes of Europe descended upon the Latin countries of the South. The earliest, as the latest, armor of Europe was plate armor; although scale armor, which has often been confounded with mail, wis lates duced among them from the castern barbarians, among whom it is still, in some degree, in use. The armor of a Hellenle chief of Homer's time consisted of a high crested helmet, which a M on occasion be drawn over the face, after fashion of a knight's vicere a short breast-plate covering the chest from below the columplate covering the close from below the columbianes to below the ribs, but leaving all the vital parts of the neck and clavicular region, as well as the arms, exposed; a plated waishold worm below the breastplate, protecting fluks as d belty; as d, lastly, a kilt, or short petticout, descending in city to the knex, of cloth or beather, covered by marrow, contigues the cole is regard strips of initiallic plates, or cloth or leather, covered by narrow, configures, the early separate strips of metallic plates, or scales, his red one upon the other, so as to fall loosely and yield to every motion of the large yet to afford full protection against a cross-cut and some defence against a direct thrust. To these was added the large circular should oxide cribg the whole med, and the greaves of I rouse, be critically morabled to the term of the less and sometimes covering the knee.— The same form was continued, with little change, among Pelopouresian, Athenian, and Macedonia the recopounds and Athenian, and an excess soldiery of the phalanx, whose array when drawn up in line, according to Xenephon, "lightened with brass, and bloomed with crimson." The Roman soldiery of the legions to the very end of the empire, retained the armor, still offering no protection to the threat, the upper portion of the chest, or the arms, all of which they were trained to protect by means of the olding backler. And this their open order and pseudiar mode of fighting, every man hand to hand, as if in single combat, with the goldier opposed to him, singularly qualified them to do. The Romans, however, in later days rejected the greaves, at least for their infantry. and went into action with the legs bere a

sist a shrewd broadsword blow, or the dirt of

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the feet only protected by the military shoe, from which one of their emperors, Caligula, had his name.—This form of defensive armor continued until the very last days of the Roman compire, even when the seat of government was transferred to Constantinople; and to the times when the crusaders, sheathed from head to heel in chain mail, regarded with equal wonder and contempt the Protospathaires and wonder and contempt the Protospatialres and other military officers of the degenerate Cassars, as recorded by Anna Comnena, clad in the precise equipments which are still to be seen in the bas-reliefs of Trajan's column.—The oriental nations in the mean time had adopted much more complete, as well as more perfect, suits of armor, which seem to have been most-ly made of overlapping scales, sewed upon leathern dresses, accurately fitting the shape, and covering the whole carcase and limbs of the horse as well as of the rider; and this, which is said to have been especially the style of the Samatians, was ultimately adopted by all the heavy cavalry (cataphracti) of the enemies, and at times the mercenary allies of Rome.

—Throughout the western provinces of the Roman empire the same arms, offensive and defensive, were adopted; and even the first Anglo-Saxon conquerors of England were equipmed and armed very similarly to the legionary ped and armed very similarly to the legionary soldiers. But when the vikings and sea-pi-rates of the North came down on the provinces, of late emancipated from the declining empire, and left to their own defence and their own devices, far other arms and weapons were introduced. Conical helmets of wrought steel, with curious shirts of a sort of primitive mail, not composed of intertwisted links, but of stout single rings, set edgewise, perpendicularly, in close contact, each to the next, upon shirts or jackets of elk or bison hide, to which they were strongly sewed, so as to cover the whole surface of the leather, and to offer to a blow the outer edges of a series of connected rings, formed their edges of a series of connected rings, tormed their body armor. Round targes of wrought steel, with bosses and spikes in the centre, protected their left arms; and their offensive weapons were steel crossbows, heavy two-edged cutting swords, and ponderous glaives, bills, or battle-axes, as they were indiscriminately called, with the addition of short, heavy javelins, in the use of their bary ware great proficients. Such was which they were great proficients. Such was the later armor of the Anglo-Saxons of England, and with such they fought, within a few days, victoriously against Harald Hardrada, at Stamford in Yorkshire, and at Hastings, to their utter discomfiture, against the Norman chivalry of William the Bastard. These men, of originally cognate origin, wore arms of somewhat kindred device, though modified in accordkindred device, though modified in accordance with circumstances, and adapted to the use of cavalry, instead of footmen and searovers. They wore the same conical steel caps; but these were now fitted with what was called POVEES. a nasal, being a perpendicular steel bar descend-ing from the cap, so as to protect the nose. They had long shirts, which might almost be

called gowns, falling down to the mid leg, but parted before and behind so as to hang on each side the horse and protect the thighs, made of a linked texture, of small steel rings, intricate-ly woven into one another, precisely after the manner of a modern curb-chain. These shirts, manner of a modern curb-chain. These shirts, technically known as hauberks (Fr. haubert, Ital. hobergo) had long sleeves, reaching to the wrists; and, with them, were worn hose of the same material, with feet like those of modern stockings, reaching up to the same. modern stockings, reaching up to the girdle, where they were secured, so that the whole man was covered with a perfect web of flexible but impenetrable steel network. The shield but impenetrable steel network. The shield was what is technically called heater-shaped, being exactly in the form of a modern smoothing iron; it was worn hung about the neck, with the broad side of the triangle upward, so as to protect the chest when the knight charged with the lance on horseback; and on the left arm, when he fought sword in hand. The weapons offensive of these formidable warriors were long steel-pointed lances, and straight two-edged, but not as yet two-handed, swords for the cavalry; long bows and short swords, or rather large knives for the infantry, who were armed in the same manner, although in a lighter fashion than the men-at-arms. As more mail, although it could not be easily cut through or pierced by lance-point or sword-edge, could be beat in, since it was perfectly pliable and resisted by yielding rather than by sustaining, and could therefore afford no defence from terlighter fashion than the men-at-arms. and could therefore afford no defence from ter rible bruises and contusions, the wearer was obliged to swathe himself in thick casings, 2 or obliged to swathe himself in thick casings, 2 or 3 in number, of coarse woollen stuff, and to wear, above those, but still under the mail, a coat of buff leather of elk's or bull's hide, sufficient in itself to resist a sabre cut. This inconvenience, and the fact that, so soon as the vast espaldrons, or double-handed swords, with blades 4 feet in length were introduced, the mail itself was liable to be cleft asunder, as it was to be smashed to pieces by the contusing blows of mace or battle-axe, led to the introduction of plate armor. But this improvement crept in slowly and gradually. The first addition was the square-topped helmet of the Templars, covering the whole face, with a sort of door opening laterally on hinges, but not capable of being opened at the will of the wearer, like the avantaille and beaver of later days. Then poldrons, or plates covering the shoulders, genouillers, or knee-pieces, of jointed shoulders, genouilleres, or knee-pieces, of jointed steel splints, and plate shoes, were added to the mail; and this was the suit of armor, of the best and most approved construction, so late as to the time of the third crusade of Richard Cœur de Lion and Philip Augustus, A. D. 1189, both of which monarchs are represented, in their great seals, equipped and armed exactly as described. The horses, at this period, were accounted only with chamfronts of steel protecting their foreheads, often armed with a spike, like the horn of a unicorn; and with a poitrel or breast-cloth of chain mail attached

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to the bows of the saddle and falling down over the chest of the animal.—The next change was characterized by a mixture of two styles, such as we find in the armor of the time of Elward II, when the hauberk and chausses, or hose, are nearly covered with the different pieces of wrought-iron, and the shoulders and elbows have similar defences. Overlapping ellows have similar defences. Overlapping plates for the gauntlets, with small steel knobs or spikes, called gads, for the knuckles, appeared soon after; and by the reign of Richard II. the transformation was so far completed that only the camail—probably corrupted from cap-mail—the part which hung from the head over the neck and shoulders, the gussets at the joints, and the bottom of the apron, could be een of the entire suit of ringed mail, worn at the beginning of the century. The splendor of the armor had also become as much a matter The splendor of of attention as its construction; so that a new danger resulted to the owner of any peculiarly fine suit. Froissart records the case of Ray-mond, a nephew of Pope Clement, "who was taken prisoner, but afterward put to death for his beautiful armor." Allettes or small wings Ailettes or small wings were attached to the back of the shoulders in reign, the vizored baginet was enriched with wreaths or bands in another; while, in a third, that of Henry V., by which time the knight was eased in complete steel from head to foot, the graceful parache or plume of feathers is sometimes seen surmounting the casque, and giving a new air to the dress and to its wearer; while the crested helmet, now only worn at tournaments, grows more and more magnificent.—From this date, commencing with the reign of Henry VI., there is preserved in the tower of London an unbroken series of specimens of the armor of every reign, extending down to that of James II., with whose time the use of complete armor may be said to have completely reased. Three of these suits, those of Henry VI., Edward IV., and Henry VII., in whose time defensive armor had reached its utmest perfection, are especially worthy of notice, as portraying the improvement and com-pletion of the equipment of man and horse. In addition to the evident magnificence and scen-rity of the dress of Henry VI., there is one particular feature only perceptible on a close examination. The back and breast plates are composed of several pieces each, so as to make the whole flexible. It was for a long time a matter of much difficilty to understand how a knight equipped himself; t.'l Sir Samuel Meyrick, by the aid of an old document, solved the enigms. According to him, the procedure was follows: The sleeves and shirt of mail would be first put on; then the long-pointed address, or overlapping pieces of steel for the defence of the feet, with the formulable spirs series of the feet, with the formation spires series of into them; then the greaves for the legs and the cuisses for the thighs. The broast-plate would be next adjusted to the body, to which the tulettes, those overlapping pieces which hang from the waist over the hips, would

be fastened by their straps. The van-brace or defences of the forepart of the arm, and the or defences of the forepair or size _____ up to rear-braces, for the remainder of the arm up to the shoulder would follow. The neck, head, the shoulder, would follow. The neck, I and hands, now alone remain undefended. camail is hung on the neck, the salade or sa cannal is hing on the need, the sained or sairer, as new German head-piece, characterized by a peculiar projection behind, over which is the rich-looking knight's cap and kingly device, is put upon the head; and the beautifully wroughs gauntlets on the hands and wrists. The efficy of Henry VI. bears his pole-axe, a weapon of German origin, in his hands; and, if he had not a martial heart, he has at least in his armor, as he sits on his horse in the royal armory, a very martial exterior. In the next armor, that of martial exterior. In the next armor, that of Edward VI., there are considerable changes and improvements; the leg-pieces end a hule above the ancles, and instead of sollerets appear slipper stirrups. Three entirely new pieces are added to the armor. The grande garde, a large piece of steel fastened over the left side of the breastplate, a sort of substitute for the shield—the garde de bras, a peculiarly shaped piece of armor covering the arm above the elbow, and lastly the rolling piece, which is an extraordilastly the rolant piece, which is an extraordinary projection, acutely angular in front and advancing sharply forward, attached to the upper rim of the breastplate, and covering the whole face and helmet, up to the very brown, when the head is lowered. It was so perfect a protection, and so difficult to attain, or hit with the lance-point, that it was often disused by agreement, in tournaments. The wearer could agreement, in tournaments. only see over it, by throwing his head as in backward as possible, so as to bring his ever above its upper rim. In real action, it must above its upper rim. In real action, it muss have been wholly useless; since the wearer must have fought in it blind and darkling, and, if safe himself, could work no evil to his antagonist. In the suit of Henry VII., the victor of Bosworth field, the perfection of armor is attained. The whole suit is flutted; the neck is the suit of the roses guards rising perpendicularly above its upper rim. defended by pass guards, rising perpendicularly from the shoulders; the helmet assumes a natural form; the back of the neck is protected by flexible plates; and the whole of the headpiece is made to adapt itself to every move-ment. The horse's head is still guarded by the chamfront, to which is added the manifests. protecting the crest and arch of the nec mitrel of solid plates covering the counter, and pointed of solid plates covering the counter, and the croupier, also of solid steel, extending over the whole rump of the animal from the castle of the saddle to the tail. These parts of the horse armor constitute what is called the bard-ing proper. It is in this reign that the art of defence had so far surpassed the means of offence that it is on record, that in Italy, where the best armor, that of Milan, was made, two armies fought from 9 in the morning until 4 in the afternoon, in which battle not only no person was killed, but no one was wounded. From was killed, but no one was wounded. From this date, however, the use of armor has con-stantly declined. In the reign of Henry VIII, the rolling musketry of the Spanish infantry, at

The van-braces

annihilated the French gendarmerie; walry thenceforth ceased to be the most at arm of battle. During the wars of the conwealth, in England, and of the Lowries, armor fell more and more into abeyas musketry and ordnance improved so that actions came to be decided at a disand the best and bravest of troops rarely, rer, came hand to hand. At the comment of the present century the only who still wore defensive armor, were avy cavalry of the Austrian, Russian, and h imperial armies, who were all cuiras-

Napoleon I. made great use of this arm, merally decided his victories by a crushnarge of his steel-clad horse. But it is doubtful whether the cuirass is of real and whether it does not detract more the mobility and free action of the trooper it adds to his security, or weight in the

it adds to his security, or weight in the
At Waterloo the iron-sheathed cuiraswant down, like grass, before the superior
t of the men and horses of the English
beld troops, who wore no armor; and, in
st tremendous battles of the Crimea, alh there were cuirassiers in the armies of all
belligerents, no use was made of them in
ald. With the present tenfold increased
ney of small arms, by the introduction of
nie bullet, the advantage and use of armor,
for cavalry, may probably be held to be
mished for evermore.

MORICA, the name anciently given to the west coast of Gaul, from the Loire to the

It had a considerable fleet and carried arge intercourse with Britain. Maximus, can officer, having revolted with the leof Britain against the emperor Gratian. C., passed into Gaul with 2 Roman leand a number of aboriginal Britons, whom was one Conan Mariadec, to Maximus gave the government of Ara. Mariadec obtained the recognition of lependence from the emperor Theodosius, a the 5th century thousands of British came over, rather than remain under the Saxon yoke. They found in Armorica a table reception, and a dynasty akin to them to. The descendants of Conan Mariadec afully repelled the Danish, Norwegian, ish pirates from the coasts of Armorica, so, on the land side, the various German who invaded and ravaged Gaul. During th and 6th centuries it was the most in and prosperous part of that country. Thristian religion was early propagated Bishops of Dol, Quimper, and Vannes, conded at the end of the 4th century and

Bishops of Dol, Quimper, and Vannes, corded at the end of the 4th century, and mals of Armorica preserve a long roll of saints whose names are not known else.

In consequence of the influx of Brithout the 6th century, Armorica began to led Bretagne.

MS, instruments or weapons of offence, as ed to defensive armor. Arms may, in this be separated into 2 broad divisions of

ancient and modern, reckoning the latter from the adaptation of gunpowder to purposes of war; and each of these may be again distinguished into missiles and weapons for hand to hand encounter. It stands to reason that of-fensive arms were prior in their invention and use to defensive coverings, since the latter could be of no utility except against the effect of the former. It is probable, also, that missiles were prior, in point of time, to weapons for close fight, inasmuch as nature furnishes every animal, more or less, with the means of attack and defence at close quarters, but gives no means for striking or capturing a distant enemy or object of pursuit, until he be first overtaken by superior speed of foot. Furthermore, in the ast, to which all evidences point as the cradle of civilized man, missile weapons have always prevailed from the earliest periods of history to the present day. The bow and the javelin were, as history tells us, and as we see confirmed by the as instory tens us, and as we see commined by the wonderful and wonderfully preserved sculptures of Nineveh, in Scriptural ages, the favorite weapons of the Parthians, Persians, Assyrians, Medes, and other Oriental races; while their instruments for close fight were merely weak, straight daggers, acinaces, which word has been falsely translated scymitars. In the heroid wars, as described by Homer, missiles were still, in the hands of the chiefs and heroes, at least, the principal weapons; a ponderous spear, hurl-ed from the hand, and rarely, if ever, used to thrust with as a pike, being the instrument which decided nearly all the duels of the champions, although, at times, they had recourse to their short swords, and even to heavy stones cast from the hand. The masses, indeed, would cast from the hand. The masses, indeed, would seem to have fought in phalanx or close column with the long standing pike, held fast in both hands. The bow and sling had, evidently, as little weight in deciding the fate of battles as they had favor in the eyes of the aristocratio leaders of the day. This prejudice continued, on the part of the Greeks, nearly to the end of their polity, the bow being hardly considered a fitting weapon for a freeman, and its use being mostly attributed to slaves, mercenary or tributer to the part of the property of ntary allies, or to proletarians of the poorest and lowest degree. The arm of the free Greeks of the republican cities, and afterward of the Macedonian and barbaric kingdoms of upper Hellas, was emphatically the pike, or earises, of 24 feet in length, which they charged in both hands, having their persons obliquely covered by the great round shield worn upon the left arm. The tactic on which the success of this arm depended was a closely serried column, ordinarily of 12 or 24, but occasionally of 50, files in depth. So long as the phalanx held its front unbroken, its close array of spear points was impenetrable and bore down every foe whom it encountered front to front; but it was an unwieldy body, liable to be thrown into disorder by an attack on the flanks or in the rear, and, when once thrown out of its order, so that an enemy could get within the heads of the long pikes, it was

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invariably and easily routed, since the weak, short swords which the men carried in addition to their pikes, were not weapons to do power-ful execution, and such as they were, the Greeks had neither use nor confidence in them their who le discipline and drilling being directed to, and dependent on the pike. The weapons of the Romans, on the contrary, were a short, massive javelin, 6 feet in bright, including the triangular steel head of 18 inches, which they were wont to hard into the lines of their enemy were won't to hard mio the littles of their enemy at 19 or 15 pages distant, when no shield, how-everstout, or i reasy late, however finely temper-ed, could resist its brunt, and a short two-dized broadsword, probably, in the first instance, of Spanish origin and manufacture. This latter strament, with which they were trained to stab rather than to strike, as by so doing they inflicted the deadliest woreds on their enemies? persons with the least exposure of their own, was that with which Rome cut her way to miversal empire. Her tactic, adapted to its use was a loose array of open lines, cach man stand-ing 3 fest from his right and left hand comrades, so that he had a clear space of 6 feet in which to manage his sword and brokler, and when to manage his sword and to slor, and fighting, as it were, a duel or single countar, hand to hand, with his immediate opponent, over whom his paculiar weapon, his singular skill in its use, and his incessant drilling to athletic exercises of all sorts, gave him immense advantage. With the Greeks and Romans infantry was the front and principal feature of their armies. In cavalry they were ever weak, and archery and shagers they contemp-tuously disregarded. But with the decline of the Roman empires, especially that of the East, a new arm of the service took the leed, and the steeledd eavilry of the milbile ares for a year carried all before them; infantry, with but two exceptions, the English and the Swiss, being utterly powerless against their overwhele, and charge. The arms of these fou-dal men at-erips were the lame, the inace, the dalumn at struck. The arms of these foundalumn at struck were the lane, the mace, the lattle-axe, and the two-handed sword; but it is the first to which to you well their producers success, it belong to them, what the sure is was to the Greek featurin of the philips. It was a hate and pendeters weap nof nearly is feet in length, belong 1 by the great weight of its better of, which was often hearly a toot in disanctor, at 20 meles from the extremity, having a not have easily us feet to alm to the upper arm of the chargen, which steaded it est was had in rest, so perced by a projectic free cat hate table to the right hand is he fit to king from the total and the projection. With the specific we were help restricted in particle which their hands as chest, she attod in particle, with defect to missiles which in that any cold to be in the accessity, with the school of the large of the wall will the additional arrow, as I of each of the large of a life period arrow, as I of each of the large of a life period arrow, as I of each of the access to display a world feet on the first side is 0 by when their to it we spect to by a when he first side is and their a deval fertile of steel-shall pale of a and their

with their fatal longbows of 6 feet in length, and their cloth-yard arrows (see Authert, shot them down through plate and mail, as if they were naked men, and invariably won the field, unless, when failing to defend the r from with pikes, or secure their flanks, the mail-clad cavalry broke into their lines, when the axe and made and two-handed sword made short work of them. The other arms of the intantry of this time were the bills-something smaler to a short heavy scythe-blade set erect on a shaft 4 feet long -leaden mallets and bag knives of the Anglo-Norman archer—the poken and halberts of the Swiss, which won them the bloody day of Sempach, and did them yeoman service at Morat, Granson, and Nancy, wien service at Morat, Granson, and Nancy, with the Austrian and Burgundian chivalry had dismounted-the crosshows of the Gen esc. and the serried spears of the Scottish feet, fought. Ike the Greeks in phalanx, the battle of Hastings to that of Pava, the lance was the queen of Weapons; hourse could resist its levelled charge, and, until grapowder, the grave of chivalry, was in the land the field, it rendered the ansternal seaton to the field, it rendered the ansternal seaton to the field. darmeric invincible in the shock of Lattle. at that battle, fatal to Francis, and to tree! were of his kingdom's chivalry, musketry, so far improved, though the weapon was stall 1.2 as reproved, matchbook argueouse fire I from a rest, as to be able to seistain a reduce fire of volleys, assumed the lead in micrary matter, which seems now by the most resent measurement to be seened to it to rever. After Physical to reign of fouldism and charging characty ***
over; and, although the mosket was notyet sufficiently certain in its nin, or effect or in the range and perstration, but that the Engish lengthow, yet for a while, contented with it \$e. lengthow, yet for a whole, contended with it for the palm, from that day infantry reasonand the precedence, has ever since composed the built of modern armies, shood the brant of lattles. Even the scale of victory and only called it the aid of cavalry to complete the relate of disco-dered and discondited antagorists, or if itself forced to relate before overwholiant gifters, to cover us relate from assailants, whose pursua-if rigid most torow them into disorder, and ex-tense them to be charged by horse, while in exse them to be charged by horse, while in cofusion. It has long been known that here, however strong or well led, cannot break steady infantry, arms d even with the pike alone, when in square, and recent events have shown that with the improved fire-arms of the mesiern day, they can be specessfully resisted in Line - For a long tone the progress and improvement of fire arms, was extremely slow. The range was small, the necuracy of aim imperfect, and till the music t was combined with the bayons, the naisketeer had no means of defence in his con-person either as against charging horse, or so against infinitry with long weapons, at close quarters. During this period, therefore, the pike again rose in favor, and, for a long time illes haed with musketry were the arms of the

flanks secured by horse, the English archers

choice troops of all armies in the world, and the main agents in winning all the great vic-tories of their day. Such were the famous Spaish infantry, known, in the bloody wars of the Netherlandish persecutions, as the old bands of Castile; such the Swedish blue and yellow hatalions of Gustavus Adolphus, the Protestant lion of the north; such the invincible legions of Wallenstein and Tilly and their contemporaries of the 30 years' war. Meantime, the bayonet was added to the arquebuse or musket, which had become from a matchlock a firelock, and thus united in itself the properties of both pike and gun, and could be used indiscriminately as and gun, and could be used indiscriminately as a missile or a weapon at close quarters. But, from this date, missiles have become as decidedly the arbiters of war and the winners of battles, as was the stabbing sword of the Roman legionary, or the lance of the feudal chivalry. Nine-tenths of all the battles that have alry. been fought since the days of the English civil war, have been decided by artillery and musketwithout the crossing of a bayonet, or the stroke of a sword; unless in a casual charge of cavalry, or in the pursuit, after the tide of bathas ebbed into a tumultuous rout. such will now be the case, more than ever. The French wars of the revolution against the Tyrolese, and the American war of independ-ence, brought the rifle, which was by no ence, brought the rifle, which was by no means a new weapon as some persons have supposed—for the principle of rifling or screwing barrels, as it was then called, and its effect on the bullet, were known and used even in matchlocks, so early as the 16th century—into general the invention of percussion donral notice, and the invention of percussion dou-bled even its utility. Recent improvements have weapon, which lay in the difficulty and slow-ness of loading; while such a wonderful in-crease of range has been obtained that musketry with the Minié bullet is now fully effective at little short of a mile's distance; and that, not only in volley firing, as against masses of men, but against single individuals, who can be picked off unerringly at 600 and 700 yards' distance. Equal facilities have been gained in the acquisition of the art and skill of taking aim; and the system of instruction has so far advanced, that it is now believed that any man of ordinary mental and physical powers may be tanglit to become an efficient marksman, and that it is evident, that unless the range and practice of great guns can be equally improved and increased, small arms will decide the issue of possible but easy to silence cannon, by shooting down the artillerists at their guns, beyond the range of grape. Such is a brief review of the arms which have proved the most effective from the earliest periods of history to the present day. What further stridge modern seines and day. What further strides modern science and invention may make in this department, it is not easy to foresee, or possible to predict; but it is satisfactory to know that with every increase of the facility of killing, and improvement of

the means of destruction, war becomes less probable, and, when actually present, less bloody than in the old days of simple sword and buckler.

and buckler.

ARMSTRONG, a county in central Pennsylvania, having an area of 750 square miles; population, 29,560; capital, Kittanning. The surface of the country is undulating, and the soil generally fertile. It is watered by the Alleghany, and several smaller streams. Its most valuable mineral productions are iron, salt, and coal. In 1850 this county produced 197,697 bushels of wheat, 195,501 of Indian corn, 470,742 of oats, 16,047 tons of hay, and 489,103 pounds of butter. There were 21 flour and grist mills, 12 salt-boiling establishments, 5 carpentering and building establishments, 18 saw mills, 9 manufactories of brick, and 3 of tin and sheet-iron ware, 2 woollen factories, 1 nail factory, 2 iron foundries, 2 forges, 1 furnace, and 8 tanneries. It contained in that year 65 churches, and 2 newspaper establishments. There were 6,477 pupils attending public schools, and 135 attending academies or other schools. The Pennsylvania canal passes through its southern extremity. The county, which is named after Gen. Armstrong, was organized in 1800.

ARMSTRONG, John, general, an American officer in the revolutionary war, the author of the celebrated anonymous "Newburg Addresses," afterward minister to France, and secretary of war in 1813, born at Carlisle, Penn., in 1758, died April 1, 1843. At the age of 18 he entered the army as a volunteer, was one of Gen. Mercer's aids at the battle of Princeton, and bore him in his arms from the field, when he had received his death wound. He afterward became a favorite of Gen. Gates, and served under him, with the rank of major, through the remainder of the war. During the winter of 1782-'83, while the army was encamped at Newburg, great anxiety was felt among the officers and men as to the probable action of congress with regard to the arrearages of pay, and the half-pay promised to those officers who should serve through the war. A committee of 3 was finally appointed to present a memorial to congress, which was received and debated, but no further action was taken. This increased the previous state of dissatisfaction, and on the 10th of March, 1783, a meeting of officers was called anonymously for the next day, to discuss their grievances. On the day appointed an anonymous address was issued, forcibly and eloquently written, in which the writer exhorted his comrades to adopt a bolder tone; to refuse to perform further military duty during the war, or to lay down their arms on the return of peace, unless their first demands were complied with. It required all the prudence, firmness, and judgment of Washington to avert the evil effects of this appeal to the troops. He immediately issued a call for a similar meeting on the 15th inst., for the discussion of their claims, which was followed by

another anonymous address, constraing the action of Washington into an approval of the course previously proposed by the writer. At this in ethic Washington addressed the officers this in ening washed and feeling, assuring them of his song athy with their suffering, and his ardent desire to cooperate with them in obtaining the ends which they had in view, but begging them not to follow the dangerous adlogging teem not to follow the dangerous advice of the writer of the nebrosses, nor solly the glorious rapidation which they had acquired by this opening the flood-gates of evolutions of His depictor was completely site sold, and a resolution was completely site sold, and plearing thousand that of their regard, and plearing thousands for report the above of the address. Washington wrote an ingent appeal in their level to compress, which was sold away. Arosen he did to compress, which was sold away. Arosen ing write these accidences passed laway. Arosen ing write these accidences production at the reports of many of his follows in the resold although Washington had specific in the above the attendant saw reason to countries of this appeal and although the association of the control of the plantage of a production of the control of the vice of the writer of the ichiresses, for sally the t. 6 :: ٠: : ::;

he himself had borne in it, gave him extraordinary facilities. He married a sister of the late Chancellor Livingston in 1789, and took up his residence on the North river, at Redhook, at Dutchess county

Datchess county.

ARMSTRONG, John, a physician, poet, and miscellaneous writer, best known as the author of the "Art of Preserving Health," a didactic psem which was productously admired in an day, born in Castleton parish. Roxbarghsham, about 1709, deel in 1779. His father was a clergyman. He studied at the university of Edinburgh, and after receiving his medical diploma, he settled in London. His practice, however, was very small. In 1755 he published an optimized in Knowledge of Physic," in which he radicaled the Edinburgh, "An Essay for Abridging the Study of Physic," in which he radicaled the Edinburgh of Love," In 1744 appeared the "Ec no my of Love," In 1744 appeared to "Art of Preserving Health," a work which his infection stains a something assages, has but as the infection of the last whole. He remained a Londing the attains a something assages has but as the infection of the passes of 1766. He seems to have been affected with Worker of 1766. He seems to have been a road in attacks upon the medical process of a solid mattacks upon the medical process of the passes of his expecting parameter with Worker of the seems to have been a road latterly by its disappointments, and his writers are of disappointments and his writers are really a real of the medical process of the solid parameter the formal control of the solid parameter the formal control of the solid parameter that the parameter than a solid parameter than a

Ale Marcha Nov. Johns, an evident physicism and other for the orthogonal works, form May 20. 1984, at the soft Wear of the indicate in formas, the following in the age of the a

ion, he regarding himself as a great reformer a the healing art. He ridiculed Cullen and other eminent writers in unmeasured terms. other eminent His lectures, edited by Joseph Rix, were published in 1834. As a practitioner, Dr. Armstrang well deserved the success he achieved. In private life he was most amiable. Beside works above mentioned, he wrote several

ather medical treatises.

ARMSTRONG, SANUEL T., a printer and backseller, at one time mayor of Boston, died sekseller, at one time mayor of Boston, uncular farch 26, 1850, aged 66. He published Dr. lachanan's researches in Asia, which had an assmous sale, and a stereotype edition of Scott's lible, which was very successful. He accumused a large fortune in trade. Mr. Armstrong add also the office of lieut-governor, and asted as governor in 1836, when Gov. Davis research to the U. S. senate.

ARMSTRONG, WILLIAM JOEPH, D. D., an american clergyman, and secretary of the foreign held also

ARMSTRONG, WILLIAM JOSEPH, D. D., an American clergyman, and secretary of the American board of commissioners for foreign musicions, born at Mendham, New Jersey, Oct. 20, 1796, died by shipwreck, Nov. 27, 1846. He was a graduate of Princeton college and theological seminary, and began to preach as a missionary in central Virginia. He was in 1824 installed pastor of the first Presbyterian church in Richmond, where he labored with Sdelity and success for 10 years. In 1834, being appointed to the secretaryship of the American spointed to the secretaryship of the American sepointed to the secretaryship of the American beard of missions, he removed to Boston, and in 1838, at the suggestion of the prudential committee of the board, he changed his residence to New York. He, however, visited Boston each month to attend the meeting of the prudential committee. In returning from one of these journeys, the boat in which he had taken passage was lost in a tempest, and many of the passengers, among whom was Dr. Armstrong, perished. His life and a collection of his sermons have been published.

ARMY, the organized body of armed men

ARMY, the organized body of armed men which a state maintains for purposes of offensive or defensive war. Of the armies of ancient history the first of which we know any thing positive is that of Egypt. Its grand epoch of glory coincides with the reign of Rhanses II. (Sessitive in the property of the state of the st tris), and the paintings and inscriptions relating to his exploits on the numerous monuments of form the principal source of our knowledge on Egyptian military matters. The war-rier caste of Egypt was divided into two class-a, hermotybii and calasirii, the first 160,000, the other 250,000 strong, in their best times. It spears that these two classes were distinguished from each other merely by age or length of service, so that the calasirii, after a certain number of years, passed into the hermotybii or reserve. The whole army was settled in a sort of military colonies, an ample extent of land being server for each men as an equivalent for his server. spart for each man as an equivalent for his ser-vices. These colonies were mostly situated in vices. These colonies were mostly situated in the lower part of the country, where attacks from the neighboring Asiatic states were to be anticipated; a few colonies only were establish-

very formidable opponents. The strength of the army lay in its infantry, and particularly in its archers. Beside these latter there were bodies of foot soldiers, variously armed and dis-tributed into battalions, according to their arms; spearmen, swordsmen, clubmen, slingers, cc. The infantry was supported by numerous war-chariots, each manned by 2 men, one to drive and the other to use the bow. Cavalry does not figure on the monuments. One solitary drawing of a man on horseback is considered to belong to the Roman epoch, and it appears certain that the use of the horse for riding pears certain that the use of children and of cavalry became known to the Egyptians thank their Asiatic neighbors only. That at through their Asiatic neighbors only. That at a later period they had a numerous cavalry, acting, like all cavalry in ancient times, on the wings of the infantry, is certain from the una-nimity of the ancient historians on this point. The defensive armor of the Egyptians consisted of shields, helmets, and breastplates, or coats-of-mail, of various materials. Their mode of attacking a fortified position shows many of the means and artifices known to the Greeks and They had the testudo, or batteringram, the vinea, and scaling-ladder; that they, however, also knew the use of movable tower and that they undermined walls, as Sir G. Wil-kinson maintains, is a mere supposition. From the time of Psammeticus a corps of Grecian the time of Psammeticus a corps of Greenan mercenaries was maintained; they were also colonized in lower Egypt.—Assyria furnishes us with the earliest specimen of those Asiatic armies which, for above 1,000 years, struggled for the possession of the countries between the Mediterranean and the Indus. There, as in Mediterranean and the Indus. There, as in Egypt, the monuments are our principal source of information. The infantry appear armed similar to the Egyptian, though the bow seems less prominent, and the arms offensive and defensive are generally of better make and more tasteful appearance. There is, beside, more vatasteful appearance. tasteful appearance. There is, beside, more variety of armament, on account of the greater extent of the empire. Spear, bow, sword, and dagger, are the principal weapons. Assyrians in the army of Xerxes are also represented with iron-mounted clubs. The defensive armament consisted of a helmet (often very tastefully worked), a coat of mail of felt or leather, and a The war-chariots still formed an imshield. portant portion of the army; it had 2 occu-pants, and the driver had to shelter the bow-man with his shield. Many of those who fight in chariots are represented in long coats-ofmail. Then there was the cavalry, which here we meet with for the first time. In the earliest we meet with for the first time. In the earliest sculptures the rider mounts the bare back of his horse; later on, a sort of pad is introduced, and in one sculpture a high saddle is depicted, similar to that now in use in the East. The cavalry can scarcely have been very different from that of the Persians and later eastern nations—light, irregular horse, attacking in disorderly swarms, easily repelled by a well-armed, solid infantry, but formidable to a disordered or beaten army

ed on the upper Nile, the Ethiopians not being

Accordingly, it figured in rank behind the charinteers, who appear to have formed the aristo-cratic are, of the service. In infantry factics some progress toward regular movements and formations in ranks and files appears to have been made. The bowmen either fought in advatice, where they were always covered, each of the o, by a shield-bearer, or they formed the rear rank, the first and second ranks, with spears, stooping or kneeling to enable them to shoot. In sieges they certainly knew the use of neocable towers and mining; and, from a passage in Ezekiel, it would almost appear that they made some sort of mound or artificial fall to command the walls of the town—a rude be-ginning of the Roman aggre. Their movable ginance of the Roman ngger. Their movable and field towers, too, were clevated to the height of the besieged wall, and higher, so as to command it. The ram and vinca they used also; and, inturerous as their armies were, they turned off whole arms of rivers into new beds in order to gain necess to a weak front of the attacked place, or to use the dry bed of the riv-er as a read into the fortress. The Babylonians er as a read into the fortress. The Babylonians seem to have had armies similar to those of the Assyriars, but special details are wanting.—The Person couples owed its greatness to its founders, the warinke nomads of the present Parsis-tan, a ration of horsemen, with whom cavalry whom cavalry took at once that predominant rank which it has since held in all castern armies, up to the recent introduction of modern European dr.li. Durius Hystaspes established a standing army, her ider to keep the compered provinces in section, as well as to prevent the frequent reverses the straps, or civil governors. Every province thes had its garrison, under a sepaprovince these had its garrison, under a separative training of ferrinal towns, beside, were noticed by detachments. The provinces had to be a two expense of that taking these troops. To the read of army mes belonged the guards of the 22 highest closs winfantry (the himorities, if a rate is particult with good, followed on the first training of carriages, with the training and servants, and of carriers with processing by by the others. It out have a rate and training war chartests, some with processing less let her the discrete, I from her a consendent in orders ware harrons, some of the angle of with a system. For expeditions of many there is a less than the provide self that the discrete is a less than the provide self that the discrete is a place. The mass of the advances of the above the strength of a truly oriental and a self that the discrete is the transfer of the action of the above the above the above the armament as in a strength of the action of the action of the action of the action of these letters are also be a first than the action of the action of the action of these letters are also because the action of to come, we with others to command each

decimal subdivision. The commands of lan corps or of the wings of the army were g Among the infantry the Persian and the other Aryan nations (Medes and Bactrians) formed the clife. They were armed with bows, spens of moderate size, and a short sword; the was protected by a sort of turban, the ledy by as the rest of the Persian infantry, was mismally beaten whenever it was opposed to even the smallest bodies of Greeks, and its unwieldy and disorderly crowds appear quite incapable of any but passive resistance against the incipient planar of Sparta and Athense witness Maraba. Platea. Mycale, and Thermopyle. The was chariots, which in the Persian army appear in the last time in history, might be useful on quin level ground against such a motley crowd with Persian infantry themselves were, but again solid mass of pikemen, such as the Greeks formed, or against light troops taking advantaged inequalities of ground, they were worse than useless. The least obstacle stopped them. In battle the horses got frightened, and, no longer under command, ran down their own infants. As to the cavalry, the earlier periods of the pire give us little proof of its excellence. were 10,000 horse on the plain of Marathon good eavairy country—yet they could not? the Athonian ranks. In later times it d guished itself at the Granicus, where, formed in one line, it fell on the heads of the Macedonian columns as they emerged from the fords of the river, and upset them before they could deploy. It thus successfully opposed Alexander's at vanced guard, under Prolemy, for a long while until the main body arrived and the light troop mana uvred on its flanks, when, having no see end line or reserve, it had to retire. But at the period the Persian army had been strengthened by the infusion of a Greek element, imported by the Greek mercenaries, who, seem after Xerzcs, were taken into pay by the king; and the cavalry tactics displayed by Memnon on the Grane is are so the roughly un-Asiatic that we may, in the absence of positive information, # once as ribe them to Greek influence. - The se macs of Greece are the first of the detailed of gamzation of which we have ample and o With them the history of tactic especially infantry tactics, may be said to begin Without stopping to give an account of the wal-like system of the heroic age of Greece, as descaled in Homer, when cavalry was unknown, when the nobality and chiefs fought in was charnes, or descended from them for a dad with an equally prominent enemy, and when the intantry appears to have been little better than that of the Asiatics, we at once pass to the tandary force of Athens in the time of her greatness. In Athens every free born man was lable to military service. The holders of cartain public offices alone, and, in the cartier time of the force. times the fourth or poorest class of fre

exempt. It was a militia system based a slavery. Every youth on attaining his year was obliged to do duty for 2 years, sally in watching the frontiers. During time his military education was completed; ward he remained liable to service up to the year. In case of war the assembled Oth year. In case of war the assembled as fixed the number of men to be called in extreme cases only the lerées en masse stratia) were resorted to. The strategi, 10 hom were annually elected by the people, be levy these troops and to organize them, at the men of each tribe, or phyle, formed by under a separate phylarch. These offices well as the taxiarchs, or captains of maies, were equally elected by the people. whole of this levy formed the heavy infankeplita) destined for the phalanx or deep formation of spearmen, which originally sed the whole of the armed force, and subsettly after the addition of light troops and ently, after the addition of light troops and sury, remained its mainstay—the corps which led the battle. The phalanx was formed rious degrees of depth; we find mentioned makes of 8, 12, 25 deep. The armature of applitus consisted of a breastplate or corslet. consisted of a breastplate or corslet, set, oval target, spear, and short sword. Forte of the Athenian phalanx was attack; tharge was renowned for its furious image was renowned for the pace durate charge, so that they came down on the sy with a run. On the defensive, the solid and closer phalanx of Sparta was its fior. While at Marathon the whole force has Athenians consisted of a heavy armed he Athenians consisted of a heavy armed anx of 10,000 hoplits, at Platsa they had, he 8,000 hoplits, an equal number of light arry. The tremendous pressure of the Perinvasions necessitated an extension of the lity to service; the poorest class, that of thetes, was enrolled. They were formed light troops (gymnetæ, psili); they had no neive armor at all, or a target only, and a supplied with a spear and javelins. With Athenian power, their extension of the t troops were reinforced by the contingents heir allies, and even by increancy troops; rnanians, Ætolians, and Cretans, celebrated chers and slingers, were added. An interate class of troops, between them and the itse, was formed, the *peltasta*, armed simi-the light infantry, but capable of occupy-and maintaining a position. They were, and maintaining a position. They were, ever, of but little importance until after the ponnesian war, when Iphicrates reorgan-them. The light troops of the Athenians yed a high reputation for intelligence and iness both in resolution and in execution. several occasions, probably in difficult ad, they even successfully opposed the nd, they even successfully opposed the tan phalanx. The Athenian cavalry was duced at a time when the republic was al-y rich and powerful. The mountainous ad of Attica was unfavorable to this arm, the neighborhood of Thessaly and Bœotia,

countries rich in horses, and consequently the first to form cavalry, soon caused its introduc-tion in the other states of Greece. The Athenian cavalry, first 300, then 600, and even 1,000 strong, was composed of the richest citizens, and formed a standing corps even in time of peace. They were a very effective body, extremely watchful, intelligent, and enterprising. Their position in battle, as well as that of the light troops, was generally on the wings of the phalanx. In later times, the Athenians also maintained a corps of 200 mercenary mounted archers (hippotoxolæ). The Athenian soldier, up to the time of Pericles, received no pay. Afterward 2 oboli (beside 2 more for provisions, publish that soldier had a fally received and a soldier bad a fally received and a soldier bad as fally as a soldier and a soldier bad as fally as a soldier and a soldie which the soldier had to find) were given, and sometimes even the hoplitæ received as much as 2 drachms. Officers received double pay, cavalry soldiers three-fold, generals four-fold. The corps of heavy cavalry alone cost 40 talents (\$40,000) per annum in time of peace, during war considerably more. The order of battle and mode of fighting ware very averaged. tle and mode of fighting were extremely simple; the phalanx formed the centre, the men locking their spears, and covering the whole front with their row of shields. They attacked the hostile phalanx in a parallel front. When the first onset was not sufficient to break the enemy's order, the struggle hand to hand with the sword decided the battle. In the mean time the light troops and cavalry either attacked the corresponding troops of the enemy, or attempted to operate on the flank and rear of the phalanx, and to take advantage of any dis-order manifesting itself in it. In case of a victory they undertook the pursuit, in case of feat they covered the retreat as much as possible. They were also used for reconnoitring tions and forays, they harassed the enemy on the march, especially when he had to pass a defile, and they tried to capture his convoys and stragglers. Thus the order of battle was extremely simple; the phalanx always operated as a whole; its subdivisions into smaller bodies had no technical significance; their command-ers had no other task than to see that the order of the phalanx was not broken, or at least quickly restored. What the strength of Athe-nian armies was during the Persian wars, we have shown above by a few examples. At the beginning of the Peloponnesian war, the force mustered 13,000 hoplitæ for field service, 61,000 (the youngest and the oldest soldiers) for garrison duty, 1,200 horsemen, and 1,600 archers. According to Boeckh's calculations the force sent against Syracuse numbered 38,560 men; reinforcements despatched afterward, 26,000 men; in all nearly 65,000 men. After the complete ruin of this expedition, indeed, Athens was as much exhausted as France after the Russian campaign of 1812.—Sparta was the military state, par excellence, of Greece. If the general gymnastic education of the Athenians developed the agility as much as the strength of the body, the Spartans directed their attention mostly to strength, endurance, and hardiness. They

valued steadiness in the ranks, and military point of honor, more than intelligence. The Athenian was educated as if he was to fight among light troops, yet in war he was fitted in-to his fixed place in the heavy phalanx; the Spartan, on the contrary, was brought up for service in the phalanx, and nothing else, evident that as long as the phalanx decided the battle, the Spartan, in the long run, had the best of it. In Sparta, every freeman was en-relled in the army lists from his 20th to his 60th The ephori determined the number to be called out, which was generally chosen among the middle-azed men, from 30 to 40. As in Athens, the men belonging to the same tribe or locality were carolled in the same bootroops. The organization of the army same body of based upon the contraternities (enomotic) introbased upon the comrace mass, and dued by Lye rights 2 of which formed a pente-costys; 2 of these were united into a lochos, and the second of 8 or 4 loclá into a mora. This was the organization in Xenophon's time; in former periods it appears to have varied. The strength of a mora is variously stated at from 400 to 960 men, and their number at one time was said to be 600. These various badies of free Spartans formed the phalanx; the hoplitus forming it were armed with a spear, a short sword, and a shield fastened round the neck. Later on Change es introduced the large Carian shield, fastened by a string on the left arm, and leaving both hands of the soldier free. The Spartans considered it disgraceful for their men to return, after a defeat, without their shields; the preservation of the shield proved the retreat to have been made in good order and a treat to have been made in good order and a compact pladary, while single fugitives, randing for the rollives, of course had to throw way the club sy sheld. The Spartan phalanx has governing 8 deep, but sometimes the depth was decided by placing one wing behind the other. The non-appear to have marched in Step i some cleb activary evolutions were also in stept some electricity evolutions were also in the social as a cazing front to the rear by the hart title of social man, advanting or returning a wing by when zhake, but they would seem to have been into have been and at a later period only. In their host traces the Spartan phalanx, like that of Atharis, know the parallel front attack enjoint of the reason of the march, were distant for each of the reason of the host of feet, in the charge 3 feet, and in a position of 6 feet, in the charge only 1) foot, from reach tenders. In comy was commanded by one of the social and a position in the centre of the feet of social Atharward, the number of the feet Spatian Atharward, the number of the feet Spatian Atharward, the phalax was kept up by a solution train to support than about the trace, disclosing the stronger than about the trace, disclosing the ways whence of feet one. It were you would have a stock mounted to the Spart in your, but they demonite disclosing a formed a sort of bely guard of hophice around the king. Of light troops, use, so has a cazing front to the rear by the hophtic around the king. Of light troops,

mountains near Arcadia, who generally cos the left wing; the hoplite of the phains. side, had Helot servants, who were expected in battle to do duty as skirmishers; thus, the 5,000 troops with them, but of the exploits of the latter we find nothing stated in history.—It simple tactics of the Greeks underwent considerations. erable changes after the Peloponnesian war. A the battle of Leuetra. Epaminondas had pose, with a small force of Thebana, the more numerous, and hitherto invincible sparts thalanx. The plain result of a small of the sparts. phalanx. The plain, parallel front attack, he would have been equivalent to certain defe both wings being outflanked by the longer fro of the enemy. Epaminondas, instead of adva ing in line, formed his army into a deep column and advanced against one wing of the Spart phalanx, where the king had taken his static He succeeded in breaking through the Stars line at this, the decisive point; he then wheeled his troops round, and moving on either hand he hims if outflanked the broken line, what could not form a new front without losing in could not form a new front without losing in tactical order. At the battle of Mantanes, the Spartans formed their phalanx with a greater depth, but, nevertheless, the Theban column again broke through it. Agesiaus in Sparta, Timotheus, Iphicrates, Chabrias in Athema also introduced changes in infantry tactes, light infantry, capable, however, in case of light infantry, capable, however, in case of light infantry, capable, however, in case of need, to fight in line. They were armed with a small round target, strong linen corsist, and long spear of wood. Chabrius made the first a small round larget, strong lines corsec, and long spear of wood. Chabrius made the first ranks of the phalanx, when on the defenses, kneel down to receive the enemy's charge. Full squares, and other columns, &c., were introduced, and accordingly deployments formed part of the elementary tactics. At the same time, of the elementary tactics. At the same time, greater attention was paid to light infantry of all kinds; several species of arms were borrowed from the barbarous and semi-barbarous neighhers of the Greeks, such as archers, meaned and on foot, slingers, &c. The majority of the soldiers of this period consisted of mercenaria. The wealthy entrens, instead of doing daty themselves, found it more convenient to per for a substitute. The character of the phai as the preeminently national portion of the army, in which the free citizens of the state only were admitted, thus suffered from this admixture of mercenaries, who had no right citizenship. Toward the approach of the cestonian epoch, Greece and her colonies were as much a mart for soldiers of fortune, and mercenaries, as Switzerland in the 18th and 19th centuries. The Egyptian kings had at an early time formed a corps of Greek troops. Afard, the Persian king gave his army son steadmess by the admission of a body of Greek mercenaries. The chiefs of these balies were regular condottieri, as much as those of lin in the 16th century. During this period, we like engines for throwing stones, darts, a

there were the skirita, inhabitants of t

ry projectiles, were introduced, espe-r the Athenians. Pericles already used silar machines at the siege of Samos. reare carried on by forming a line of thation, with ditch, or parapet, round a, investing it, and by the attempt the war-engines in a commanding poof, to bring the walls down. At the ar the walls. the column formed the synaspismus, or ranks holding their shields before ad the inner ranks holding them over sads, so as to form a roof (called by , testudo), against the projectiles of .—While Greek skill was thus directed toward shaping the flexible of the mercenary bands into all sorts and artificial formations, and in invanting new species of light g or inventing new species of light to the detriment of the ancient Doric helan, which at that time alone could battles, a monarchy grew up, which, y infantry of such colossal dimensions, army with which it came in contact is tits shock. Philip of Macedon formanding army of about 80,000 infantry, 30 cavalry. The main body of the army immense phalanx of some 16,000 or men, formed upon the principle of the phalanx, but improved in armament. If Grecian shield was replaced by the long Carian buckler, and the moderatespear by the Macedonian pike (sarissa) at in length. The depth of this phalanx ander Philip, from 8, to 10, 12, 24 men. a tremendous length of the pikes, each of at ranks could, on levelling them, make project in front of the first rank. The advance of such a long front of from 2,000 men, presupposes a great perfec-elementary drill, which in consequence tinually practised. Alexander completed mination. His phalanx was, normally, men strong, or 1,024 in front by 16 men strong, or 1,024 in front by 16 The file of 16 (lochos) was conducted shagos, who stood in the front rank. chy, 2 of which a taxiarchy, 2 of xenagy or syntagma, 16 men in front by. This was the evolutionary unity, the seing made in columns of xenagies, 16 pente Sixteen xenagies (equal to 8

. Sixteen xenagies (equal to 8 penteies, or 4 chiliarchies, or 2 telarchies)
a small phalanx, 2 of which a diphalanand 4 a tetraphalangarchy or phalanx
so called. Every one of these subdiand its corresponding officer. The diarchy of the right wing was called
at of the left wing, tail, or rear. Whentraordinary solidity was required, the
g took station behind the right, formmen in front by 32 in depth. On the
and, by deploying the 8 rear ranks on
of the front ranks, the extent of front
doubled, and the depth reduced to 8.

The distances of ranks and files were similar to those of the Spartans, but the close or-der was so compact that the single soldier in the middle of the phalanx could not turn. tervals between the subdivisions of the phalanx were not allowed in battle; the whole formed one continuous line, charging en muraille. The phalanx was formed by Macedonian volunteers Greece, Greeks also could enter it. The soldiers were all heavy armed hoplitse. Beside shield were all heavy armed hoplits. Beside shield and pike, they carried a helmet and sword, although the hand-to-hand fight with the latter weapon cannot very often have been required after the charge of that forest of pikes. When the phalanx had to meet the Roman legion, the case indeed was different. The whole phalangite system, from the earliest Doric times down to the breaking up of the Macedonian empire, suffered from one great inconvenience; it wanted flexibility. Unless on a level and open plain, these long, deep lines, could not move with order and regularity. Every obstacle in front forced it to form column, in which shape it was not prepared to act. Moreover, it had no sec-ond line or reserve. As soon, therefore, as it was met by an army, formed in smaller bodies and adapted to turn obstacles of ground without breaking line, and disposed in several lines seconding each other, the phalanx could not help going into broken ground, where its new op-ponent completely cut it up. But to such op-ponents as Alexander had at Arbela, his 2 large phalanxes must have appeared invincible. side this heavy infantry of the line, Alexander had a guard of 6,000 hyraspistæ, still more heavily armed, with even larger bucklers and longer pikes. His light infantry consisted of argyraspides, with small silver-plated shields, and of numerous peltastæ, both of which troops were organized in demi-phalances of normally were organized in demi-phalanxes of normally 8,192 men, being able to fight either in extended order or in line, like the hoplitm; and their phalanx often had the same success. The Macedonian cavalry was composed of young Macedonian and Thessalian noblemen, with the addition, subsequently, of a body of horsemen from Greece proper. They were divided into squadrons (ila), of which the Macedonian no-bility alone formed 8. They belonged to what we should call heavy cavalry; they wore a helmet, cuirass with cuissarts of iron scales to protect the leg, and were armed with a long sword and pike. The horse, too, wore a front-let of iron. This class of cavalry, the cata-phracti, received great attention both from Philip and Alexander; the latter used it for his decisive manœuvre at Arbela, when he first beat and pursued one wing of the Persians, and then, passing behind their centre, fell upon the rear of the other wing. They charged in various formations: in line, in common rectangular column, in rhomboid or wedge-shaped column. The light cavalry had no defensive armor; it carried javelins and light short lances; there was also a corps of acrobalists,

or mounted archers. These troops served for outpost duty, patrols, reconnoitring, and irreg-ular warfare generally. They were the continular warfare generally. They were the contin-gents of Taracian and Hlyrian tribes, which, beside, furnished some few thousands of irregular infantry. A new arm, invented by Alex-ander, claims our attention from the circumstance that it has been imitated in modern times, the dimacha, mounted troops, expected to fight either as cavalry or as infantry. The dragoons of the 16th and following centuries are a complete counterpart to the se, as we shall see hereafter. We have, however, no informa-tion as to whether these hybrid troops of antiquity were more successful in their double task than the modern dragoous. This was composed the army with which Alexander conquered the country between the Mediterranean, the Oxus, and the Sutledj. As to its strength, at Arbela, it consisted of 2 large phalanxes of hoplitic (say 50,000 men), 2 semiphalanxes of peitastic (16,000), 4,000 eavalry, and 6,000 irregular troops in all about 56,000 men. At the Granicus, his force of all arms was 55,000 men, of whom 5,000 were cavalry... Of the Carthaginian army we know no details; even the strength of the force with which Hannibal passed the Alps, is disputed. The armies of the successors of Alexander show no im-The armies provements on his formations; the introduction of elephants was but of short duration; when terrified by fire, these animals were more for-midable to their own troops than to the enemy. The later Greek armies cunder the Achaean league) were formed partly on the Macedonian, partly on the Roman system.—The Roman army presents us with the most perfect system of infantry tastics invented during the time when the use of gunpowder was unknown, when the use of guidpowder was unknown. It maintains the predominance of heavy infantist and compact bodies, but adds to it mobility of the separate smaller bodies, the possibility of figuring in broken ground, the disposition of several lines one behind the other, partly as supports and reliefs, partly as a powerful reserve and many a system of training the single serve, and harally a system of training the single scalar, which was even more to the purpose than that of Sparta. The Homans, accordingly, courtless every armament opposed to them, the Machetina phalanx as well as the Normholds has a lin Rome every citizen, from his 17th to be \$45th or 50th year, was liable to serve, where he is a linguistic to the lowest class, or serve, weless to belonged to the lowest class, or halfserved in 20 outquizers of fort, or 10 campaigns as a better int. Contrady the youngement only were selected. The drill of the solidier was very selected. The drill of the solidier was very selected in develop his handy process in every in gradde way. Handle for prize wealthing outling, wresting, switching for prize verified, outline, wresting, switching, first take it then in tail armost method of the regular drill of the use of the arms and the various in venicus. Thing there is reliency marching in venients. Thing marches be heavy marching erder, every's later carrying to at 40 to 60 lb were kept upon the rate of 4 tables an hor riplatitue rate of 4 index an hour. The use of the intreacting tools, and the throw-

formed part of the military education; and not only the recruits, but even the legions of veerans, had to undergo all these exercises in order to keep their bodies fresh and supple, and remain inured to fatigue and want ward soldiers were, indeed, fit to conquer the world.—In the best times of the reguldic there were generally 2 consular armies, each consisting of 2 legions and the contingents of the alles in 2 legions and the contingents of the alies in infantry of equal strength, cavalry double the strength of the Romans. The levy of the troops was made in a general assembly of the critizens on the capitol or Campus Martins; an equal number of men was taken from every tribe, which was again equally subdivided among the 4 legions, until the number was completed. Very often citizens, freed from service by age or their numerous campusant entered again as yolunteers. The recruit was entered again as volunteers. The recruits were then sworn in and dismissed until required When called in, the youngest and poorest were taken for the velites, the next in age and mean for the hastati and principes, the oldest and wealthiest for the triarii. Every legion counted 1,200 velites, 1,200 hastati, 1,200 principes, 400 triarii, and 300 horsemen (knights, in all 4,500 The hastati, principes, and triarii, were each divided into 10 manipuli or companies, and megual number of velites attached to each. The velites (voravii, accousi, ferenturii) formed the light infantry of the legion, and stood on me wings along with the cavalry. The hastal formed the 1st, the principes the 2d line; they were originally armed with spears. The trans formed the reserve, and were armed with the pilum, a short but extremely heavy and das-gerous spear, which they threw into the from ranks of the enemy immediately before engaging him sword in hand. Every manipulus we commanded by a centurion, having a 2d centurion for his licutement. The centurious ranked through the whole of the legion, from the 2d centurion of the last or 19th manipulus of hastati to the 1st centurion of the 1st manipular of the triarii (primes pieus), who, in the aiseous of a superior officer, even took the command of the whole legion. Commonly, the primes pieus commanded all the triarii, the same as the permi princeps (1st centurion of 1st manipulus of principes), all the principes and the principes hastatus, and all the hastati of the legion legion was commanded in the earlier times in turns by its 6 military tribunes; each of the After the la civil war, legates were placed as standing chich at the head of every legion; the tribunes now were mostly officers intrusted with the staff of administrative business. The difference of an mament of the 3 lines had disappeared before the time of Marius. The pilum had been given the time of Marius. The pilum had been given to all 3 lines of the legion; it now was the na-tional arm of the Romans. The qualitative distinction between the 3 lines, as far as it w based upon age and length of service, soon de-appeared too. In the battle of Mitellus against

ing up of intrenched camps in a short time, al

the, there appeared, according to Sallust, the last time hastati, principes, triarii. In now formed out of the 80 manipuli of gion 10 cohorts, and disposed them in 2 to 5 cohorts each. At the same time, the al strength of the cohort was raised to 600 the 1st cohort, under the primus pilus, ind the legionary eagle. The cavalry remaind formed in turms of 30 rank and file a decurions, the 1st of whom commanded turms. The armsture of the Roman introcessing the state of a state of the state pa, 4 feet by 21, made of wood, covered leather and strengthened with iron fasture; in the middle it had a boss (umbo) to off spear-thrusts. The helmet was of m, generally with a prolongation behind to test the neck, and fastened on with leather discovered with brass scales. The breastds covered with brass scales. The breast-ie, about a foot square, was fastened on a ther coralet with scaled straps passing over short coralet with scaled straps passing over a shoulder; for the centurions, it consisted a scoat of mail covered with brass scales. The left leg, exposed when advanced for the ind-thrust, was protected by a brass plate. It is short sword, which was used for acting more than for cutting, the soldiers ried the pilum, a heavy spear 4½ feet wood, he appointing from point of 1½ foot or nearly ha projecting iron point of 1½ foot, or nearly set in all long, but 2½ inches square in the ed, and weighing about 10 or 11 lbs. When wn at 10 or 15 paces distance, it often pen-ed shields and breastplates, and almost ry time threw down its man. The velites, the equipped, carried light short javelins, the later periods of the republic, when bario auxiliaries undertook the light service, s class of troops disappears entirely. The alry were provided with defensive armor that to that of the infantry, a lance and a ger sword. But the Roman national cavalry not very good, and preferred to fight dis-nted. In later periods it was entirely done ay with, and Numidian, Spanish, Gallic, and rman horsemen, supplanted it. The tactical rman horsemen, supplanted it. position of the troops admitted of great mo-ity. The manipuli were formed with inters equal to their extent of front; the depth ied from 5 or 6 to 10 men. The manipuli the 2d line were placed behind the intervals the 1st; the triarii still further to the rear, in one unbroken line. According to cir-stances, the manipuli of each line could be up or form line without intervals, or those the 2d line could march up to fill the interthe 2d line could march up to fill the inters of the 1st; or else, where greater depth required, the manipuli of the principes and up each in rear of the corresponding aipulus of the hastati, doubling its depth. In opposed to the elephants of Pyrrhus, the ses all formed with intervals, each manipulus aring the one in its front, so as to leave an for the animals to pass straight through order of battle. In this formation the mainess of the phalanx was in every way constuly overcome. The legion could move vol. II.—9

and manœuvre, without breaking its order of battle, in ground where the phalanx durst not venture without the utmost risk. One or tvo manipuli at most would have to shorten their front to defile past an obstacle; in a few moments, the front was restored. The legion could cover the whole of its front by light troops, as they could retire, on the advance the line, through the intervals. But the principal advantage was the disposition in a plurality of lines, brought into action successively, according to the requirements of the moment. With the phalanx, one shock had to decide. No fresh troops were in reserve to take up the fight in case of a reverse—in fact that case was never provided for. The legion could engage the enemy with its light troops and cavalry on the whole of his front—could and cavalry on the whole of his front—could oppose to the advance of his phalanx its first line of hastati, which was not so easily beaten, as at least 6 of the 10 manipuli had first to be broken singly—could wear out the strength of the enemy by the advance of the hastati, and finally decide the victory by the triarii. Thus the troops and the progress of the battle remained in the hand of the general, while the phalanx, once engaged, was irretrievwhile the phalanx, once engaged, was irretrievwhile the phalanx, once engaged, was irretrievably engaged with all its strength, and had to see the battle out. If the Roman general desired to break off the combat, the legionary organization permitted him to take up a position with his reserves, while the troops engaged before retired through the intervals, and took up a position in their turn. Under all circumstances, there was always a portion of the troops in good order, for even if the triarii were repulsed, the 2 first lines had re-formed behind them. When the legions of Flaminius met Philip's phalanx in the plains of Thessaly, their first attack was at once repulsed; but charge following charge, the Macedonians got tired and lost part of their compactness of formation; and wherever a sign of disorder manifested itself, there was a Roman manipulus to attempt an inroad into the clumsy mass. At last, 20 maniinroad into the clumsy mass. At last, 20 mani-puli attacking the flanks and rear of the phalanx, tactical continuity could no longer be maintained; the deep line dissolved into a swarm of fugitives, and the battle was lost. Against cavalry, the legion formed the *orbis*, a sort of square with baggage in the centre. On the march, when an attack was to be apprehended, On the it formed the legio quadrata, a sort of lengthened column with a wide front, baggage in the centre. This was of course possible in the open plain, only where the line of march could go open plain, only where the line of march could go across the country. In Casar's time the legions were mostly recruited by voluntary enlistment in Italy. Since the Social war, the right of citizenship, and with it liability for service, was extended to all Italy, and consequently there were far more men available than required. The pay was about equal to the earnings of a laborer; recruits, therefore, were plentiful, even without having recourse to the conscription. In exceptional cases only were legions recruited

in the provinces; thus Cæsar had his fifth le-gion recruited in Roman Gallia, but afterward it acceived the Roman naturalization en masse. The legions were far from having the nominal strength of 4,500 men; those of Casar were selfour much above 3,000. Levies of recruits who formed into new legions (legionas tironum), and the selfour mich above 3,000. rather than mixed with the veterans in the old rather than mixed with the vectors in the legions; these new legions were at first excluded from battles in the open field, and principally used for guarding the camp. The legion was divided into 10 cohorts of 3 manipuli each. The names of hastati, principes, triarii, were maintained as far as necessary to denote the rank of officers according to the system indicated above; as to the soldiers, these names had lost all significance. The 6 centurions of had lost all significance. the first cohort of each legion were, by right, present at councils of war. The centurions rose present at councils of war. The centurions roso from the ranks, and seldom attained higher command; the school for superior officers was in the personal staff of the general, consisting of young men of education, who soon advanced to the rank of tribuni militum, and later on to that of legati. The armament of the soldier remained the same: pilum and sword. Beside remained the same; pilum and sword. Beside his accoutrements, the soldier carried his per-sonal baggage, weighing from 35 to 60 pounds. The contrivance for carrying it was so clumsy that the baggare had first to be deposited before the soldier was ready for battle. The camp-uten-ils of the army were carried on the back of horses and mules, of which a legion re-quired about 500. Every legion had its eagle, and every cohort its colors. For light infantry, Cæsar drew from his legions a certain number of men (antesignani), men equally fit for light service and for close fight in line. Beside these, he had his provincial auxiliaries, Cretan archers, Balcarie slingers, Gallie and Numidian continhence and Common and Comm Bents, and German mercenaries. His cavalry consisted partly of Gallic, partly of German troops. The Roman velites and cavalry had disappeared some time ago.-The staff of the army consisted of the legati, appointed by the senate, the lieutenants of the general, whom he employed to command detached corps, or portions of the order of battle. Casar, for the first time, gave to every legion a legate as standing commander. If there were not legati enough, the quastor, too, had to take the command of a legion. He was properly the paymaster of the army, and chief of the commissariat, and was assisted in this office by numerous clerks and orderlies. Attached to the staff were the tribuni militus and the young volunteers above mentioned (contubernales, comites protorii), doing duty as adjutants, orderly officers; but in battle they fought in line, the same as private soldiers, in the anks of the cohors protoria, consisting of the lictors, clerks, servants, guides (speculatores), and orderlies (apparitores) of the head-quarters. The general, boside, had a sort of personal guard, consisting of veterans, who voluntarily had reculisted on the call of their former chief. This troop, mounted on the march, but fighting

on foot, was considered the *clite* of the army it carried and guarded the *verillum*, the signs banner for the whole army. In battle, Commence of the whole army is a cohorts per legisle. in the first, and 3 in the second and third has each; the cohorts of the second line dressed of the intervals of the first. The second line has to relieve the first; the third line formed a geral reserve for decisive manœuvres against front or flank of the enemy, or for parrying he decisive thrusts. Wherever the enemy so fee outflanked the line that its prolongation became necessary, the army was disposed in two law only. One single line (acies simplex) was manuse of in an extreme case of need only, and the without intervals between the cohorts; in the defence of a camp, however, it was the rule, as the line was still 8 to 10 deep, and could form a reserve from the men who had no room ea the parapet. Augustus completed the work of making the Roman troops a regular standing army. He had 25 legions distributed all over Augustus completed the work of the empire, of which 8 were on the Rhine tea sidered the main strength, pracipuum rob the army), 8 in Spain, 2 in Africa, 2 in Egys, 4 in Syria and Asia Minor, 6 in the Danubas countries. Italy was garrisoned by chosen troops recruited exclusively in that country, and forming the imperial guard; this consists of 12, later on, of 14 cohorts; beside these the city of Rome had 7 cohorts of municipal guards (rigiles), formed, originally, from emancipate slaves. Beside this regular army, the province had to furnish, as formerly, their light auxiliar troops, now mostly reduced to a sort of militi for garrison and police duty. On mean frontiers, however, not only these anxila troops, but foreign mercenaries, too, were Un menace ployed in active service. The number of legions increased under Trajan to 30, under Septimine Severus to 33. The legions, leside their numbers, had names, taken from their stations (L. Germanica, L. Italica), from emperors (L. Agusta), from gods (L. Primigenia, L. Apollone gund), from gods (L. Primagend), L. Apstan-rio), or conferred as honorary distinctions (L. filelia, L. pin, L. invicto). The organization of the legion underwent some changes. The commander was now called prafectus. The first cohort was doubled in strength (cohort millionis), and the normal strength of the legion raised to 6.100 infantry and 726 cavalry; this was to be the minimum, and in case of need one or more cohortes milliaries were to be added. The phore milliaria was commanded by a mili tribune, the others by tribunes or proposition rank of centurio was thus comined to sterns. The admission of liberated, or not terns. The admission of liberated, or non-liberated slaves, natives of the provinces, and all sorts of people into the legions, became the rule; Roman citizenship being required for the prestorians in Italy only, and even there this was abandoned in later times. The Roman nativeality of the army was thus very soon drowned influx of barbaric and semi-barbaria. Romanized and non-Romanized alexander: the Romanized and non-Romanized eleme officers alone maintained the Roman el

ARMY SEL

erioration of the elements composing my very soon reacted upon its armament stics. The heavy breastplate and pilum brown overboard; the toilsome system of which had formed the conquerors of the was neglected; camp-followers and lux-somme necessary to the army, and the ments (train of baggage) increased as h and endurance decreased. As had se in Greece, the decline was markn meglect of the heavy line-infantry, by a h fancy for all sorts of light armament, by the adoption of barbaric equipments seties. Thus we find innumerable classied light troops (auxiliatores, exculcator were, accurations, contains, accurations, several properties, presourestores, scutars, was, balistaris, tragularis), armed with sof projectiles, and we are told by Vegest the cavalry had been improved in iminif the Goths, Alani, and Huns. Final-distinction of equipment and armament Represes and harberians cessed and th Romans and barbarians ceased, and lamana, physically and morally superior, and over the bodies of the un-Romanized at over the bodies of the un-komanized

The conquest of the Occident by the

states was opposed by but a small rema dim tradition of the ancient Roman

i; but even this small remnant was now

yed. The whole of the middle ages is as

a period for the development of tactics a period for the development or tacustics of any other science. The feuch though in its very origin a milital section, was essentially opposed to discussions and secessions of large very continuous and secessions of large very continuous and secessions. th their contingents, were of regulace. The distribution of orders to the times. The distribution of orders to the turned generally into a tumultuous countarned generally into a tumultuous countarned generally into a tumultuous countarned on decisive points; struggles for the side of a single locality filled up entire signs. The only operations of magnitude sing in all this period (passing over the sent times from the 6th to the 12th centre the expeditions of the German emissions Italy, and the crusades, the one making as the other.—The infantry of the league, composed of the feudal retainers part of the peasantry, was chiefly composed le aga, composed of the feudal retainers sart of the peasantry, was chiefly composed to the feudal retainers sart of the peasantry, was chiefly composed tesses, and mostly contemptible. It was sport for the knights, covered as they with iron all over, to ride singly into this sected rabble, and lay about them with a A portion of the infantry was armed, on satinent of Europe, with the crossbow, in England the longbow became the sal weapon of the peasantry. This longwas a very formidable weapon, and selthe superiority of the English over the at Crecy, Poitiers, and Agincourt protected against rain, which rendered rembow unserviceable at times, it prolits arrow to distances above 200 yards, t much less than the re range of the mooth-bored musks. And arrow penes one-inch boad, and would even ooth-bored musk ...

through breastplates. Thus maintained its place even against the first small fire-arms, especially as six arrows could be shot off while the musket of that epoch could be loaded and fired once; and even as late as the end of the 16th century Queen Elizabeth attempted to reintroduce the national longhout as a weapon of man. The state of the st longbow as a weapon of war. It was especially effective against cavalry; the arrows, even if the armor of the men-at-arms was proof against them, wounded or killed the horses, and the unhorsed knights were thereby disabled, and generally made prisoners. The archers acted either in skirmishing order or in line. Cavalry as the decisive arm of the middle ages knights in full armor formed the first effective body of heavy cavalry, charging in regular for-mation, which we meet with in history; for Alex-ander's cataphracti, though they decided the day at Arbela, were so much an exception that we hear nothing more of them after that day, and during the whole sequel of ancient history, infantry maintains its preëminent rank in battle. The only progress, then, which the middle ages have bequeathed to us, is the creation of a cavalry, from which our modern mounted service dery, from which our modern mounted service descends in a direct line. And yet, what a clumsy thing this cavalry was, is proved by the one fact, that during the whole middle ages the cavalry was the heavy, alow-moving arm, while all light service and quick movements were executed by infantry. The knights, however, did not always fight in close order. They preferred fighting duels with single opponents, or spurring their horses into the midst of the hostile infantry; thus the mode of fighting out a battle was carried back to the Homeric times. When they did act in close order, they charged when they did act in close order, they charged either in line (one deep, the more lightly-armed esquires forming the second rank) or in deep column. Such a charge was undertaken, as a rule, against the knights (men-at-arms) only of the rule, against the knights (men-at-arms) only of the opposing army; upon its infantry it would have been wasted. The horses, heavily laden with their own as well as their rider's armor, could run but slowly and for short distances. During the crusades, therefore, and in the wars with the Mongolians in Poland and Silesia, this immovable cavalry was constantly tired out, and, finally, worsted by the active light horsemen of the East. In the Austrian and Burgundian wars against Switzerland, the men-at-arms, entangled in difficult ground, had to dismount and form a phalanx even more immovable than that of Macedon; in mountain defiles, rocks and stumps of trees were hurled down upon and stumps of trees were hurled down upon them, in consequence of which the phalanx lost its tactical order, and was scattered by a reso-lute attack.—Toward the 14th century a kind of lighter cavalry was introduced, and a portion of the archers were mounted to facilitate their manœuvring; but these and other changes were soon rendered useless, abandoned, or turn-ed to different account by the introduction of that new element, which was destined to change the whole system of warfare—gunpowder.

From the Arabs in Spain the knowledge of the crom the arms in spain the knowledge of the composition and the use of gunpowder spread to France and the rest of Europe; the Arabs themselves had received it from nations further east, who again had it from the original inventors, the Chinese. In the first half of the inventors, the Chinese. In the first han of the 14th century cannon first was introduced into European armies; heavy, unwieldy pieces of ordnance, throwing stone balls, and unfit for any thing but the war of sieges. Small arms were, however, soon invented. The city of were, however, soon invented. The city of Perugia in Italy supplied itself in 1364, with 500 hand-gons, the barrels not more than eight inches long; they subsequently gave rise to the manufacture of pistols (so called from Pistola in Tuscany). Not long afterward longer and heavier hand-guns (arguebuses) were manufactured, corresponding to our present musket; but short and heavy in the barrel, they had but a restricted range, and the matchlock was an almost absolute hinderance to correct aim, beside having nearly every other possible disadvantage. Toward the close of the 14th century there was no military force in western Europ But the without its artillery and arquebusiers. influence of the new arm on general tactics was very little perceptible. Both large and small fire-arms took a very long time in loading, and what with their clumsiness and costliness, they had not even superseded the crossbow by 1450. -In the mean time the general breaking up of the feudal system, and the rise of cities, conthe feudal system, and the rise of cities, con-tributed to change the composition of armies. The larger vassals were either subdued by cen-tral authority, as in France, or had become quasi-independent sovereigns, as in Germany and Italy. The power of the lesser nobility was broken by the central authority in conjunc-tion with the cities. The feudal armies no longer existed; new armies were formed from the numerous mercenaries whom the ruin of feudalism had set free to serve those who would pay them. Thus, something approaching standing armies arose; but these mercenaries, men of all nations, difficult to keep in order, and not very nations, difficult to keep in order, and not very regularly paid, committed very great excesses. In France, King Charles VII, therefore formed a permanent force from native elements. In 1445 he levied 15 compagnics d'ordonnance of 600 men each; in all, 9,000 cavalry garrisoned in the towns of the kingdom, and paid with regularity. Every company was divided into 100 lances; a lance consisted of one man-attrus. 3 archers an esquire and a race. Thus 100 lances; a lance consisted of one manuscarms, 3 archers, an esquire, and a page. Thus they formed a mixture of heavy cavalry with mounted archers, the 2 arms, in battle, acting of course separately. In 1448 he added 16,000 francs archers, under 4 captains-general, each commanding 8 companies of 500 men. The whole of the archers had the crossbow. They whole of the archers had the crossbow. They were recruited and armed by the parishes, and free from all taxes. This may be considered the first standing army of modern times. the close of this first period of modern tactics, as they emerged from mediaeval confusion, the state of things may be summed up as follows:

The main body of the infantry, consisting of mercenaries, was armed with pike and sword breastplate and helmet. It fought in deep close masses, but, better armed and drilled than the feudal infantry, it showed greater tenacity and order in combat. The standing levies and the mercenaries, soldiers by profession, were of course superior to the casual levies and disconected bands of feudal retainers. The heavy cavalry now found it sometimes necessary to charge in close array against infantry. The light infantry was still principally compused of archers, but the use of the hand-gun for skirmishers gained ground. The cavalry remained as yet the principal arm; heavy cavalry men as yet, the principal arm; heavy cavalry, mea-at-arms encased in iron, but no longer com-posed, in every case, of the nobility, and re-duced from its former chivalrous and Homere duced from its former chivalrous and Homere mode of fighting to the more prosaic accessity of charging in close order. But the universality felt, and many devices were planned to find a lighter kind of horse. Mounted archers, as has been stated, had in part to supply this want; in Italy and the neighboring countries the struction, light cavalry on the Turkish plan, composed of Bosnians and Albanas necrenaries, a sort of Bashi-Bozuks, found ready employment, and were much feared exceeds the structure of the stru ready employment, and were much feared, ready employment, and were much reared, especially in pursuits. Poland and Hungary had, beside the heavy cavalry adopted from the West, retained their own national light cavalry. The artillery was in its infancy. The heavy gues of the time were, indeed, taken into the field, but could not leave their position after it was once taken up; the powder was bad, the loading difficult and slow, and the range of the stone-balls short.—The close of the 15th and the beginning of the 16th century are marked the beginning of the 18th century are marked by a double progress; the French improved the artillery, and the Spaniards gave a new charac-ter to the infantry. Charles VIII. of France so far made his guns movable that, not only could he take them into the field, but make them change their position during battle and them change their position during nature and follow the other troops in their movements, which, however, were not very quick. He thereby became the founder of field artillery. His guns, mounted on wheeled carriages and plentifully horsed, proved immensely superior to the old-fashioned clumsy artillery of the Italians (drawn by bullocks), and did such experient in the deep columns of the Italian influence. tion in the deep columns of the Italian infi that Macchiavelli wrote his "Art of War" cipally in order to propose formations, by withe effect of such artillery on infantry e be counteracted. In the battle of Marien Francis I. of France defeated the Swimmen by the effective fire and the mobil this artillery, which, from flanking post enfilled the Swiss order of battle. By reign of the pike, for infantry, was on the cline. The Spaniards improved the cos-hand-gun (arquebuse) and introduced in the regular heavy infantry. Their as (Accquebutte) was a heavy, long-barrelled

for 2-ounce bullets, and fired from a rest by a forked pole. It sent its bullet the strongest breastplate, and was me decisive against the heavy cavalry, got into disorder as soon as the men falling. Ten or 15 musketeers were with every company of pikemen, and lect of their fire, at Pavia, astonished both and enemies. Frundsberg relates that, bettle a single shot from such a mysket t battle a single shot from such a musket to bring down several men and horses. that time dates the superiority of the h infantry, which lasted for above 100 The war consequent upon the rebellion Netherlands was of great influence on rmation of armies. Both Spaniards and improved all arms considerably. Hiththe armies of mercenaries, ev g for enlistment had to come fully equip-graned, and acquainted with the use of But in this long war, carried on dur-years on a small extent of country, the ble recruits of this class soon become ble recruits of this class soon became. The Dutch had to put up with such edied volunteers as they could get, and the meent now was under the necessity of seeem drilled. Maurice of Nassau composed t drill-regulations of modern times, and y laid the foundation for the uniform in-ion of a whole army. The infantry again to march in step; it gained much mogeneity and solidity. It was now linto smaller bodies; the companies, hith-00 to 500, were reduced to 150 and 200 O companies forming a regiment. The red musket gained ground upon the pike; ird of the whole infantry consisted of teers, mixed in each company with the en. These latter, being required for co-hand fight only, retained their helmet, plate, and steel gauntlets; the musketeers away all defensive armor. The forma-was generally 2 deep for the pikemen, om 5 to 8 deep for the musketeers; as the first rank had fired, it retired to gain. Still greater changes took place in ry, and here, too, Maurice of Nassau took ad. In the impossibility of forming a heavy pt in the impossionity of forming a neavy of men-at-arms, he organized a body pt-horse recruited in Germany, armed with a helmet, cuirass, brassarts for the steel gauntlets, and long boots, and as the lance they would not have been a fear the heavy around Spanish eavylary heavy. for the heavy-armed Spanish cavalry, he hem a sword and long pistols. This new of horsemen, approaching our modern sers, soon proved superior to the far less us and less movable Spanish men-atwhose horses they shot down before the nass broke in upon them. Maurice of a had his cuirassiers drilled as well as his ry; he so far succeeded, that he could to execute in battle, changes of front ther evolutions, with large and small of them. Alva, too, soon found the ne-r of improving his light horse; hitherto they had been fit for skirmishing and single combat only, but under his direction they soon learned to charge in a body, the same as the heavy cavalry. The formation of cavalry remained still 5 to 8 deep. About this time Henry IV. of France introduced a new kind of mounted service, the dragoons, originally infantry, mount-ed on horses for quicker locomotion only; but ed on horses for quicker locomotion only; our very few years after their introduction, they were used as cavalry as well, and equipped for this double service. They had neither defensive armor nor high boots, but a cavalry sword, and sometimes a lance; beside, they carried the infantry musket, or a shorter carbine. These troops did not, however, come up to the expectations which had led to their formation; they soon became a portion of the regular cavalry, and ceased to fight as infantry. (The emperor Nicholas of Russia attempted to revive the original dragoons by forming a body of 16,000 men strong, fit for dismounted as well as mounted as well as m ed service; they never found occasion to dismount in battle, always fought as cavalry, and mount in battle, always fought as cavalry, and are now broken up and incorporated, as cavalry dragoons, with the remaining Russian cavalry.) In artillery the French maintained the superiority they had gained. The prolonge was invented by them about this time, and case-shot introduced by Henry IV. The Spaniards and Dutch, too, lightened and simplified their artillery, but still it remained a clumsy concern, and light, movable pieces of effective calibre and range were still unknown.—With the 30 years' war opens the period of Gustavus Adolphus, the great military reformer of the 17th century. His infantry regiments were composed of two-thirds musketeers, and one-third pikemen. Some regiments consisted of composed of two-thirds musketeers, and one-third pikemen. Some regiments consisted of musketeers alone. The muskets were so much lightened, that the rest for firing them became unnecessary. He also introduced paper cart-ridges, by which loading was much facilitated. The deep formation was done away with; his pikemen stood 6, his musketeers only 3 deep. These latter were drilled in firing by platoons and ranks. The unwieldy regiments of 2,000 or 3,000 men were reduced to 1,300 or 1,400, in 8 companies and 2 regiments formed into a brigcompanies, and 2 regiments formed into a brig-With this formation he defeated the deep masses of his opponents, often disposed, like a column or full square, 30 deep, upon which his artillery played with terrible effect. The cavalry was reorganized upon similar principles. The men-at-arms were completely done away with. The cuirassiers lost the brassarts, and some other useless pieces of defensive armor; they were thus made considerably lighter and more movable. His dragoons fought nearly always as cavalry. Both cuirassiers and dragoons were formed only 3 deep, and had strict orders not to lose time with firing, but to charge at once sword in hand. They were divided into squadrons of 125 men. The artillary was imposed by the addition of light lery was improved by the addition of light guns. The leather guns of Gustavus Adolphus are celebrated, but were not long retained.

They were replaced by cast-iron 4-pounders, so light that they could be drawn by 2 horses; they could be fired 6 times while a musketeer fired twice; 3 of these were attached to every regiment of infantry. Thus, the division of light and heavy field artillery was established; light and heavy field artillery was established; the light guns accompanied the infantry while the heavy ones remained in reserve, or took up a position for the whole of the battle. The armies of this time begin to show the increasing preponderance of infantry over cavalry. At Leipsic, in 1631, Gustavus Adolphus had 19,000 infantry and 11,000 cavalry; Tilly had 31,000 infantry and 13,000 cavalry. At had 31,000 infantry and 13,000 cavalry had 31,000 infantry and 13,000 cavalry. At Latzen, 1632, Wallenstein had 24,000 infantry and 16,000 cavalry (in 170 squadrons). The number of guns, too, increased with the introduction of light pieces; the Swedes often had from 5 to 12 guns for every 1,000 men; and at the battle of the Lech, Gustavus Adolphus forced the passage of that river under cover of the fire of 72 heavy guns. During the latter half of the 17th and the first half of the 18th century, the pike, and all defensive armor for century, the pike, and all defensive armor for infantry, was finally done away with by the general introduction of the bayonet. This weapon, invented in France about 1640, had to struggle 80 years against the pike. The Austrians first adopted it for all their infantry, the Prussians next; the French retained the pike till 1703, the Russians till 1721. The flint-lock, invented in France about the same time as the bayonet, was also gradually introduced, before the year 1700, into most armies. It materially abridged the operation of loading, protected, to some degree, the powder in the pan from rain, and thus contributed very much to the abolition of the pike. Yet firing was still so slow that a man was not expected to use more than from 24 to 86 cartridges in a battle; until in the latter half of this period improved regulations, better drill, and further improvement in the construction of small arms (especially the iron ramrod, first introduced in Prussia), enabled the soldier to fire with considerable rapidity. This neces-sitated a still further reduction of the depth of formation, and infantry was now formed only 4 deep. A species of elite infantry was created 4 deep. A species of *élite* infantry was created in the companies of grenadiers, originally intended to throw hand-grenades before coming to close quarters, but soon reduced to fight with the musket only. In some German armies riflemen had been formed as early as the 30 years' war; the rifle itself had been invented at Leipsic in 1494. This arm was now mixed with the musket, the best shots in each company being armed with it; but, out of Germany, the rifle found but little favor. The Austrians had also a sort of light infantry, called pandours; also a wort of light infantry, called pandours; Croatian and Servian irregulars from the mili-tary frontier against Turkey, useful in roving expeditions and pursuit, but, from the tactics of the day and their absolute want of drill, useless in battle. The French and Dutch created, for similar purposes, irregular infantry called com-pagnics franches. Cavalry, too, was lightened

in all armies. There were no longer any meast-arms; the cuirassiers maintained the breast-plate and helmet only; in France and Sweden, the breastplate was done away with too. The increasing efficiency and rapidity of infantry fire told very much against cavalry. It was soon considered perfectly useless for this latter arm to charge infantry sword in hand; and the opinion of the irresistibility of a firing line became so prevalent that cavalry, too, was became so prevalent that cavalry, too, was taught to rely more on its carbines than on the sword. Thus, during this period, it often occurs that 2 lines of cavalry maintain a firi fight against each other the same as if they we infantry; and it was considered very daring, to ride up to 20 yards from the enemy, fire a vel-ley, and charge at a trot. Charles XII., howeyer, and charge at a trot. Charles All., now-ever, stuck to the rule of his great predecessor. His cavalry never stopped to fire; it always charged, sword in hand, against any thing op-posing it, cavalry, infantry, batteries, and in-trenchments; and always with success. The French, too, broke through the new system and recommenced relying on the sword only. The depth of cavalry was still further reduced from 4 to 3. In artillery, the lightening of the gua, the use of cartridges and case-shot, became, now, general. Another great change was that of the incorporation of this arm with the army. Hitharty though the guara helenged to the Hitherto, though the guns belonged to the state, the men serving them were no proposoldiers, but formed a sort of guild, and articlery was considered not an arm but a hand craft. The officers had no rank in the arms of the control were considered. and were considered more related to master-tailors and carpenters than to gentlemen with a commission in their packets. About this time, however, artillery was made a component part of the army, and divided into companies and battalions; the men were converted into permanent soldiers, and the officers rankel with the infantry and cavalry. The central zation and permanence of the armed contin zation and permanence of the armed contingent upon this change, paved the way for the science of artillery, which, under the old system, could not develop itself.—The passage from deep formation to line, from the pike to the musket, from the supremacy of cavalry to that of infantry, had thus been gradually accomplished when Frederic the Great opened his campaigns, and, with them, the classical era of line tactics. He formed his infantry 3 deep, and got it to fire 5 times in 1 minute. In his L L and got it to fire 5 times in 1 minut very first battles at Mollwitz, this infantry of ployed in line, and repelled, by its rapid fire, a charges of the Austrian cavalry, which had be totally routed the Penasian bases. totally routed the Prussian horse; after faing with the cavalry, the Prussian infantry tacked the Austrian infantry, defeated it, tacked the Austrian infantry, defeated it, and thus won the battle. Formation of square against cavalry was never attempted in gree battles, but only when infantry, on the march was surprised by hostile cavalry. In a battle the Extreme wings of the infantry stretche round an polence, when menaced by cavalry and this was generally found sufficient. To ex

the Austrian pandours, Frederic formed r irregular troops, infantry and cavalry, wer relied on them in battle, where they were engaged. The slow advance of ring-line decided his battles. Cavalry, ted under his predecessor, was now made dergo a complete revolution. It was a lonly 2 deep, and firing, except on purwas strictly prohibited. Horsemanship, ered, hitherto, of minor importance, was cultivated with the greatest attention. olutions had to be practised at full speed, colutions had to be practised at full speed, he men were required to remain well up. By the exertions of Seydlitz, the y of Frederic was made superior to any then existing or ever existing before it; s bold riding, close order, dashing charge, tick rallying, have never yet been equalled y that succeeded it. The artillery was terably lightened, and, indeed, so much ome of the heavy-calibred guns were not to stand full charges, and had, therefore, abolished afterward. Yet the heavy arwas still very slow and clumsy in its ments, owing to inferior and heavy carand imperfect organization. In battle, k up its position from the first, and somechanged it for a second position, more in ce, but manceuvring, there was none, ight artillery, the regimental guns atto the infantry, were placed in front infantry-line, 50 paces in advance of the als of the battalions; they advanced with fantry, the guns dragged by the men, and d fire with canister at 300 yards. The per of guns was very large, from 8 to 6 per 1,000 men. The infantry, as well as walry, were divided into brigades and dis, but as there was scarcely any manceuafter the battle had once begun, and battalion had to remain in its proper in the line, these subdivisions had no tac-numbers. he men were required to remain well up. By the exertions of Seydlitz, the in the line, these subdivisions had no tac-manence; with the cavalry, a general of le might, during a charge, now and then, to act upon his own responsibility; but the infantry, such a case could never oc-This line-formation, infantry in 2 lines in surre, cavalry in 2 or 3 lines on the wings, considerable progress upon the deep form of former days; it developed the full of infantry fire, as well as of the charge slaw by allowing as many men as possible. alry, by allowing as many men as possible simultaneously; but its very perfection point confined the whole army, as it in a strait-waistcoat. Every squadron, ion, or gun, had its regulated place in the of battle, which could not be inverted or way disturbed without affecting the effi-of the whole. On the march, therefore, of the whole. On the march, therefore, thing had to be so arranged that when my formed front again for encampment tle, every subdivision got exactly into its t place. Thus, any manœuvres to be exe-had to be executed with the whole army; z place. tach a single portion of it for a flank atto form a particular reserve for the attack,

with superior forces, of a weak point, would have been impracticable and faulty with such alow troops, fit, only, to fight in line, and with an order of battle of such stiffness. Then, the advance in battle of such long lines was executed with considerable slowness, in order to keep up with the alignment. Tents followed the army constantly, and were pitched every night; the camp was slightly intrenched. The troops were fed from magazines, the baking establishments accompanying the army as much as pos-sible. In short, the baggage and other train of the army were enormous, and hampered its movements to a degree unknown nowadays. Yet, with all these drawbacks, the military organization of Frederic the Great was by far the best of its day, and was eagerly adopted by all other European governments. The recruit-ing of the forces was almost everywhere carried on by voluntary enlistments, assisted by kid-napping; and it was only after very severe losses that Frederic had recourse to forced levies from his provinces.—When the war of the coalition against the French republic began, the French army was disorganized by the loss of its officers, and numbered less than 150,000 The numbers of the enemy were far sumen. The numbers of the enemy were far su-perior; new levies became necessary, and were made to an immense extent, in the shape of national volunteers, of which, in 1798, there must have been at least 500 battalions in existence. These troops were not drilled, nor was there time to drill them according to the com-plicated system of line-tactics, and to the degree of perfection required by movements in line. Every attempt to meet the enemy in line was followed by a signal defeat, though the French had far superior numbers. A new system of tactics became necessary. The American rev tactics became necessary. The American revolution had shown the advantage to be gained with undisciplined troops, from extended order abirmishing fire. The French adopted it, in which a little disorder was less objectionable, so long as the mass remained well together. this formation, they launched their superior numbers against the enemy, and were generally successful. This new formation and the want of experience of their troops led them to fight in broken ground, in villages and woods, where they found shelter from the enemy's fire, and where his line was invariably disordered; their want of tents, field-batteries, &c., compelled them to bivouse without shelter, and to live upon what the country afforded them. Thus they gained a mobility unknown to their enemies, who were encumbered with tents and all sorts who were encumbered with tents and all sorts of baggage. When the revolutionary war had produced, in Napoleon, the man who reduced this new mode of warfare to a regular system, combined it with what was still useful in the old system, and brought the new method at once to that degree of perfection which Frederic had given to line-tactics—then the French were almost invincible, until their opponents had learnt from them, and organized their ar-

mies upon the new model. The principal features of this new system are: the restoration of the old principle that every citizen is liable, in case of need, to be called out for the defence of the country, and the consequent formation of the army, by compulsory levies, of greater or less extent, from the whole of the inhabitants; a change by which the numeric force of armies was at once raised to three-fold the average of Frederic's time, and might, in case of need, be increased to larger proportions still. Then, the discarding of camp utensils, and of de-pending for provisions upon maguzines, the introduction of the bivouse and of the rule that war feeds war; the celerity and inde-pendence of an army was hereby increased as much as its numeric force by the rule of general liability to serve. In tactical organiza-tion, the principle of mixing infantry, cavalry, and artillery in the smaller portions of an ar-my, in corps and divisions, became the rule. Every division thus became a complete army on a reduced scale, fit to act independently, and capable of considerable power of resistance even against superior numbers. The order of battle, now, was based upon the column; it served as the reservoir, from which sallied and to which returned, the swarms of skirmishers; as the wedgelike compact mass to be launched against a particular point of the enemy's line; as the form to approach the enemy and then to deploy, if the ound and the state of the engagement made it desirable to oppose firing-lines to the enemy, The mutual supporting of the 3 arms developed to its full extent by their combination in small bodies, and the combination of the 3 forms of ; skirmishers, line, and column, composed the great factical superiority of modern armies. Any kind of ground, thereby, became fit for righting in it; and the ability of rapidly judging the advantages and disadvantages of ground, and of at once disposing troops accordingly, became one of the chief requirements of a captain. And not only in the commander-m-chief, but in the subordinate officers, these qualities, and general aptness for independent ommand, were now a necessity. Corps, divisions, brigades, and detachments, were con-stantly piaced in situations where their com-manders had to act on their own responsibility; had to act on their own responsibility; the battle-field no longer presented its long unbroken lines of infantry disposed in a vast plain with cavalry on the wings; but the single corps and divisions, massed in columns, stood hidden behind villages, roads, or hills, separated from each other by seemingly large intervals, while but a small portion of the troop appeared actually engaged in skirmishing and firing artillery, until the decisive moment approached. Lines of battle extended with the numbers and with this formation; it was not necessary actually to fill up every interval with a line visible to the enemy, so long as troops were at hand to come up when required. Turning of flanks now became generally a strateg-ical operation, the stronger army placing itself

completely between the weaker of communications, so that a single defert annihilate an army and decide a car: The favorite tactical manceuvre was the Cathi ing through the enemy's centre, wi troops, as soon as the state of affairs with that his last reserves were engaged. Re which in line-tactics would have been or place and would have deducted from the ciency of the army in the decisive moment, became the chief means to decide an ac The order of battle, extending as it did in 2 extended also in depth; from the skirmis line to the position of the reserves the d was very often 2 miles and more. In if the new system required less drill and rade-precision, it required far greater rap exertions, and intelligence from every from the highest commander as well as lowest skirmisher; and every fresh improves made since Napoleon, tends in that direction The changes in the materiel of armi but trifling during this period; constant was left little time for such improvements the introduction of which requires time. Two important innovations took place in the Fre army shortly before the revolution; the tion of a new model of musket of reduced calibre and windage, and with a curved stock instead of the straight one hitherto in use. This weapon, more accurately worked, contribute great deal toward the superiority of the Fre skirmishers, and remained the model which with trifling alterations the muskets use in all armies up to the introduction of pe cussion locks, were constructed. The m was the simplification and improvement of the artillery by Gribeauval. The French artillery under Louis XV. was completely neglected; the guns were of all sorts of calibres, the carri were old-fashioned, and the models upon which they were constructed not even uniform. beauval, who had served during the 7 years' was with the Austrians, and there seen better me els, succeeded in reducing the number of a ibres, equalizing and improving the mode and greatly simplifying the whole system. and greatly simplifying the whole system, was with his guns and carriages that Napole fought his wars. The English artillery, wh was in the worst possible state when the with France broke out, was gradually, slowly, considerably improved; with it or nated the block-tail carriage, which has sibeen adopted by many continental armies, the arrangement for mounting the foot artilled men on the limbers and amounting was men on the limbers and ammunition Horse artillery, invented by Frederic Great, was much cultivated during Napol period, especially by himself, and its p tactics were first developed. When the was over, it was found that the British were the over, it was found that the British were the over. efficient in this arm. Of all large Euro armies, the Austrian is the only one which plies the place of horse-artillery by batteri which the men are mounted on wagons pro ed for the purpose.—The German ar

up the especial class of infantry armed rides, and the new system of fighting in led order gave a fresh importance to this It was especially cultivated, and in 1838 up by the French, who felt the want of a singe musket for Algiers. The tirailleurs isomers, afterward chasseurs a pied, were a, and brought to a state of efficiency at narallel. This formation d, and nt parallel. This formation gave rise to improvements in rifles, and by which both and precision were increased to a won-The names of Delvigne, Thou-Minié, became celebrated thereby. tality of the infantry, the percussion lock stroduced between 1880 and 1840 in most s; as usual, the English and the Russians the last. In the mean time, great efforts made in various quarters still further to we small arms, and to produce a musket perior range which could be given to the of the infantry. The Prussians the needle gun, a rifle arm loaded at the h, and capable of very rapid firing, and g a long range; the invention, originated agium, was considerably improved by This gun has been given to all their bettelies.

battalions; the remainder of the infantry recently got their old muskets, by a very
process, turned into Minié rifles. The
h were the first this time to arm the
of their infantry with a superior musket, be Enfield rifle, a slight alteration of the fits superiority was fully proved in the a, and saved them at Inkermann.—In al arrangements, no changes of imporhave taken place for infantry and cavalry, except the great improvement of light ry tactics by the French chasseurs, and sw Prussian system of columns of comwhich latter formation, with perhaps variations, will no doubt soon become al from its great tactical advantages. The tion is still 8 deep with the Russians and ians, the English have formed 2 deep ever Napoleon's time; the Prussians march 8 but mostly fight 2 deep, the 3d rank formse skirmishers and their supports; and the sh, hitherto formed 3 deep, have fought 2 in the Crimea, and are introducing this ation in the whole army. As to cavalry, tussian experiment of restoring of the 17th century and its failure have mentioned.—In artillery, considerable im-ments of detail and simplification of caliand models for wheels, carriages, &c., taken place in every army. The science illery has been greatly improved. Yet no aliery has been greatly improved. Yet no lerable changes have taken place. Most sental armies carry 6 and 12-pounders; iedmontese 8 and 16-pounders; the Spanand 12-pounders; the French, who hither-18 and 12-pounders, are now introducing Napoleon's so-called howitzer gun, a slight 12-pounder, from which small shells lso fired, and which is to replace every kind of field gun. The British have 8

and 6-pounders in the colonies, but in their armies sent out from England, now only use 9-pounders, 12-pounders, and 18-pounders. In the Crimea they even had a field battery of 32-pounders, but it always stuck fast.—The general organization of modern armies is very much alike. With the exception of the British and American, they are recruited by compulsory levy, based either upon conscription, in which case the men, after serving their time, are dismissed for life, or upon the reserve system, in which the time of actual service is short, but the men remain liable to be called out again for a certain time afterward. France is the most striking example of the first, Prussia of the second system. Even in England, where both line and militia are generally recruited by voluntary en-listment, the conscription (or ballot) is by law established for the militia should volunteers be wanting. In Switzerland, no standing army exists; the whole force consists of militia drilled for a short time only. The enlistment of foreign mercenaries is still the rule in some countries; Naples and the Pope still have their Swiss regiments; the French their foreign legion; and England, in case of serious war, is regularly compelled to resort to this expedient. The time of actual service varies very much; from a couple of weeks with the Swiss, 18 months to 2 years with the smaller German states, and 8 years with the Prussians, to 5 or 6 years in France, 12 years in England, and 15 to 25 in Russia. The officers are recruited in 25 in Russia. The officers are localizations ways. In most armies there are now various ways. In most armies there are now no legal impediments to advancement from the ranks, but the practical impediments vary very much. In France and Austria a portion of the officers must be taken from the sergeants; in Russia the insufficient number of educated candidates makes this a necessity. In Prussia the didates makes this a necessity. examination for officers' commissions, in peace, is a bar to uneducated men; in England advancement from the ranks is a rare exception. For the remainder of the officers, there are in most countries military schools, though with the exception of France, it is not necessary to pass through them. In military education the French, in general education the Prussian officers are ahead; the English and the Russians stand lowest in both. As to the horses requirements of the property of the standard of the passion of the pass we believe Prussia is the only country in which the equine population too is subject to compulsory levies, the owners being bought off compulsory levies, the owners being bougafixed rates. With the exceptions named above, the equipment and armament of modern armies is now everywhere nearly the same. There is, of course, a great difference in the quality and workmanship of the material. In this respect, the Russians stand lowest, the English, where the industrial advantages at their command are really made use of, stand highest. The infantry of all armies is divided into line and light infantry. The 1st is the rule, and composes the mass of all infantry; real light infantry is everywhere the exception. Of this latter, the French have at present decidedly

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the best in quality and a considerable number 21 battalions of chasseurs, 9 of Zouaves, and 6 of native Algerian tirailleurs. The Austrian light infantry, especially the rifles, are very good, too; there are 32 battalions of them. The Prussians have 9 battalions of rifles and 40 of light infantry; the latter, however, not sufficiently up in their special duty. The English have no real light infantry, except their 6 battalions of rifles, and are, next to the Russians, decidedly the least fit for that kind of duty. The ltussians may be said to be with-out any real light infantry, for their 6 rifle battalions vanish in their enormous army.— Cavalry, too, is everywhere divided into heavy and light. Cuirassiers are always heavy, hus sars, chasecurs, chevaux-legers, always light horse. Pragoons and lancers are in some armies light, in others heavy cavalry; and the Russians would also be without light cavalry were it not for the Cossacks. The best light were it not for the Cossacks. The best light cavalry is undoubtedly that of the Austrians, the national Hungarian hussars and Polish hus-The same division holds good with artillery, with the exception of the French, who as stated now have only one calibre. In other armies there are still light and heavy batteries, according to the calibres attached to them. Light artillery is still subdivided in horse and foot, the 1st especially intended to act in com-pany with cavalry. The Austrians, as stated, have no horse artillery; the English and French have no proper foot-artillery, the men being carried on the limbers and ammunition wag-The infantry is formed into companies, battalions, and regiments. The battalion is the tactical unity; it is the form in which the tactical unity; it is the form in which the troops fight, a few exceptional cases left aside. A battalion, therefore, must not be too strong to be commanded by the voice and eye of its chief, nor too weak to act as an independent body in battle, even after the losses of a cam-paign. The strength, therefore, varies from 600 paign. to 1.400 men; 800 to 1,000 forms the average. The division of a battalion into companies has for its object the fixing of its evolutionary subdivisions, the efficiency of the men in the details of the drill, and the more commodious, economical administration. Practically, comeconomical administration. Practically, com-panies appear as separate bodies in skirmishing only, and with the Prussiana, in the formation in columns of companies, where each of the 4 companies forms columns in 8 platoons; this formation presupposes strong companies, and they are in Prussia 250 strong. The number of companies in a battalion varies as much as their strength. The English have 10, of from their strength. 90 to 120 men, the Russians and Prusians 4 of 250 men, the French and Austrians 6 of vary Battalions are formed into regiing strength. ments, more for administrative and disciplinarian purposes and to insure uniformity of drill. than for any tactical object; in formations for war, therefore, the battalions of one regiment are often separated. In Russia and Austria there are 4, in Prussia 8, in France 2 service

battalions, beside depots to every regime in England, most regiments are formed, peace, of but 1 battalion. Cavalry is divi into squadrons and regiments. The squad into squadrons and regiments. from 100 to 200 men, forms the administrative unity; the English alone divide the squadron, for administrative poses, into 2 troops. There are from 3 poses, into 2 troops. There are from 3 to service squadrons to a regiment; the Bri have, in peace, but 3 squadrons, of about 120 horse; the Prussians 4 of 150 horse; the French 5 of 180 to 200 horse; the Austrians 6 or 8 of 200 horse; the Russians 6 to 10 of 120 to 170 horse. With cavalry the regiment is a body of tactical significance, as a regiment offsethe means to make an independent charge, the squadrons inutually supporting each other, as is for this purpose formed of sufficient strength viz., between 500 and 1,600 horse. The British has been supported that the strength week means that the strength of the strengt alone have such weak regiments that the obliged to put 4 or 5 of them to 1 brigad the other hand, the Austrian and Rus ments in many cases are as strong as an aw brigade. The French have nominally brigade. strong regiments, but have hitherto app in the field in considerably reduced non owing to their poverty in horses. Artille formed in batteries; the formation in regis or brigades in this arm is only for peace oses, as almost in every case of actual a the batteries are sure to become separated, are always used so. Four guns is the lanumber, and the Austrians have 8; the Frand English 6 guns per battery. Riflement other real light infantry are generally organish. in battalions and companies only, not in rements; the nature of the arm is repugnant its reunion in large masses. The same is tease with sappers and miners, they being hade, but a very small portion of the arm side, but a very small portion of the at latter case; but their 3 regiments, sappr miners, count only 6 battalions in all, the regiment the formation of most are time of peace is generally considered con The larger bodies, brigades, divisions, arm corps, are mostly formed when war breaks of The Russians and Prussians alone have the army fully organized and the higher commentation, as if for actual war. But in Prus this is completely illusory, unless at its whole army-corps be mobilized, which say the calling in of the landwehr of a whole ince; and if in Russia the troops are as with the regiments, yet the late war has a that the original divisions and corps war and that the original divisions and corps war. got mixed, so that the advantage gain such a formation is more for peace than —In war, several battalions or squadr formed into a brigade; from 4 to 8 to for infantry, or from 6 to 20 squadr cavalry. With large cavalry regiment latter may very well stand in lies of bott they are very generally reduced to strength by the detachments they have to the divisions. Light and lies infant

an army-corps has a staff of the own that it direction of a superar or a suffering manning army has a full staff with several regime 1 ely) to the divisions whenever the case which is easily overlooked or often inwhich is easily overlooked or often in-nt or impossible. The proportion of ry cavalry, however, is everywhere i, and therefore the remainder of this remed into cavalry divisions of 2 bri-th, for the purpose of reserve cavalry. idivisions, sometimes 4, are, for larger der a chief who is unjust the little der in the name of the victorial of the stall in the little into the chief who is the little into the chief the stall in the little into formed into an army-corps. Such a s everywhere its own cavalry and arven where the divisions have none; re these latter are mixed bodies, there at the same time time of it is not child of the same transport of the self time of the self that have been transported to the self that the se reserve of cavalry and artillery placed posal of the commander of the corps. under his orner chief of the server reports to all the orn

therewith, he organized the whole of ining cavalry into reserve cavalry-corps divisions of cavalry with horse-artillery The Russians have retained this forof the gran in to describe nor STABLET G. ... T THE STATE OF THE CO. ... Challet the Sail Side of f their reserve cavalry, and the other te likely to take it up again in a war tance, though the effect obtained Last been in proportion to the immense horsemen thus concentrated on one

was the first to form these, and no:

obliged to attach cavalry (and artillery

in the second of 1 in the second nch is the modern organization of the part of an army. But, in spite of the رحو حنا و المعالمة الم The second secon of tents, magazines, field-bakeries, and gons, there is still a large train of batants and of vehicles necessary to ment number t . معيم سيمين 111 ســـ علايوت

e efficiency of the army in a campaign in idea of this, we will only state the uired, according to the existing regi-or 1 army-corps of the Prussian serining me postorie et. L-met The معية الد ميزاللدا

ienna i THE PROPERTY.

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y train: 116 wagons, 103 team horses.
I train: 50 wagons (for 1,600 or 2,000 sick).
commissariat train: 159 wagons.
train: 1 wagon, 75 reserve horses.
Wwagons, 1,791 horses, 3,000 men.

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ry schools for officers and non-commissioned officers, model battalions, squadrons, and batteries, normal riding schools, and schools for veterinary surgeons. There are in most counveterinary surgeons. tries national founderies and manufactories for small arms and gunpowder; there are the various barracks, arsenals, stores, the fortresses with their equipments and the staff of officers commanding them; finally, there are the com-missariat and general staff of the army, which, for the whole of the armed force, are even more numerous and have more expensive duties to perform than the staff and commissariat of a single active army. The staff especially has very important duties. It is generally of a single active army. The staff especially has very important duties. It is generally divided into a historical section (collecting materials relative to the history of war, the formation of armies, &c., past and present), a topo-graphical section (intrusted with the collection of maps and the trigonometrical survey of the whole country), a statistical section, &c. At the head of all these establishments, as well as of the army, stands the ministry of war, organized differently in different countries, but comprising, as must be evident from the preceding observations, a vast variety of subjects. As an example we give the organization of the French ministryof war. It comprises 7 directions or divisions: 1, of the personnel; 2, of the artillery; 8, of the engineers and fortresses; 4, of administrative affairs; 5, of Algeria; 6, war depot (historical, topographical, &c., and sections of the staff); 7, finances of the war department. Immediately attached to the ministry are the following consultative commissions, composed of general and field-officers and professional men, viz.: the committees of the staff of infantry, of cavalry, of artillery, of fortification, of medical affair and the commissions for veterinary science and for public works. Such is the vast machinery devoted to recruiting, remounting, feeding, directing, and always reproducing a modern first The masses brought together cor-ich an organization. Though Narespond to such an organization. poleon's grand army of 1812, when he had 200,-000 men in Spain, 200,000 in France, Italy, Ger-many, and Poland, and invaded Russia with 45 Front men and 1,300 guns, has never yet been equalled; though we shall most likely never see such an army again united for one operation as these 450,000 men, yet the large continental states of Europe, Prussia included, can each of them raise an armed and disciplined force of 508(100) men, and more; and their armies, though not more than from 1] to 3 per ct. of their population, have never yet been reached at any former period of history.—The system of the United States bases the defence of the The system country substantially on the militia of the different states, and on volunteer armies raised as consisted states, and on volunteer armies raises as consisted demands; the standing military force, employed mainly in preserving order among the Indian tribs of the West, consisting, according to the report of the secretary of war for 1857, of only about 18,000 men.

APVAL a result Partnerson will are about 4.

ARNAL, a small Portuguese village about 4

miles N. W. from Batalha and 3 miles S. W. from Leiria, celebrated for the remains of al man villa discovered there in Ang. 1857, by Rev. Dr. Patrick B. Russell, rector of the lege of Corpo Santo of Lisbon. This gentles lege of Corpo Santo of Lisbon. while examining the geological formation character of the country, observed in a some portion of tesselated pavement, whe thought might be of Roman origin. He Hep chased the right to excavate, and set lab to work. They at length brought into vi most interesting specimen of Roman most pavement, of an extent much greater than usually found, and at a depth of about \$ 1 below the surface. This discovery is don't interesting, as the pavement constitutes flooring of a house or villa, divided into chambers, the separating walls of which well as the external walls of the house, sail : main to the height of about 11 foot. Thee try around Arnal is of great fertility, abounds with coal and iron ore. discovery of coal in the valley of Batalba, I discovery or coal in the valley of Patzina, as a new interest to the district. The Roman had smelting establishments at Porto da Ma Alqueidao, Val d'Orta, Necessidades, and of places, including Arnal. Some pieces of the pieces, including Arnal. Some pieces of the pieces, including Arnal. Some pieces of the pieces, including Arnal. Some pieces of the pieces found in the mounds of slag, most of which has necessarily accounted by mean and the present of the pieces.

are now covered by venerable caks.

ARNALL, WILLIAM, an English atteracy clerk, born 1715, died in 1741. He was a political writer in the pay of the English minists, Sir Robert Walpole. It appears, from the seport of a secret committee, that in 4 years he received £10,997 6s. 8d. for his pamphlets; yet he died in a desponding frame of mind, and in the control of the secret conditions.

ARNAO, VICENTE GONZALEZ, Spanish levy and writer, born at Madrid. Joseph Bons made him secretary of the council of at 1809. On the evacuation of Madrid he re to France, and remained in that country 1831. On his return he was appointed a water of the royal council of Spain and the his He translated Humboldt's work on Mexico. Spanish.

ARNAOUTS, Albanians employee Turkish military service as irregular are brave, good marksmen, and expe use of arms, but reckless, brutal, and ARNAUD, FRANÇOIS THOMAS MAS

ARD D', a French dramatist born at 1 18, 1718, died there Nov. 8, 1806. very young he wrote 8 tragedies, 2 brought him into contact with Voltaire sequently with Frederic the Great, we fancy to Arnaud, made him his literal spondent at Paria, and invited him to Berlin. Voltaire, on being informed Voltaire, on being informed th eric flattered Arnaud at his expense, to venge upon poor Arnaud, who was a ridiculed in Paris, while he was liout lin. After having swallowed with goe the bad French of the Prussian king. Are took himself to Dresden, where, for see

had as secretary of legation. On his re-France, his novels and plays found a arche of readers among people with a bias for the gloomy and terrible. But not reap the benefits of his success, as on the prison, into which, during the rev-he had been thrown, he was in very reircumstances, and had to struggle with from that time until his death. AUD, Mademoiselle H., a French au-better known by her nom de plume of me Charles Reybaud." Her writings, ng mostly of novels, short tales or fou-for the Paris press, have obtained a rable reputation in France. They are by felicitous pictures of life and nature times and countries. Les anciens

Paris, one of her latest works, has renalsted into English, and affords some

spictures of monastic life. Among her cas publications, those which have been tighly esteemed are Mile. de Chazeuil, as de Rieuz, Marie d'Enambue, Les deux wites, Gabrielle, Mézelie, and Le dernier AULD. A remarkable French family name originated in Provence, where it d a prominent position as early as the asury. A branch of this family removed AULD. atury. A branch of this family removed ergne in the 14th century. Three memfithis Auvergne branch are especially of notice. I. Anyone, an advocate, t Paris 1560, died there Dec. 29, 1619, himself to celebrity by a speech against suits, in favor of the university of Paris Was a Catholic, though the Jesuits

He was a Catholic, though the Jesuits him of being a Huguenot. He was the of 20 children. H. Rober, eldest son preceding, born at Paris in 1588, died at t Royal, Sept. 27, 1674. Like his father, inguished himself in a plea for the uniof Paris, against the Jesuits, which has ch circulated in France since. He also ed several other works against the Jesuits, exced him of being a Huguenot. It is certhe was violently opposed to the league 6. He was a sincere and upright man. are virtnes, nor proud of moral ones."

age of 55 he retired to the convent of loyal, where he spent the remainder of s in solitude. Here he turned his atmore undividedly to theology, and and translated many works. III. Ansoth son of the same father with the log, born at Paris, Feb. 6, 1612, died log. 6, 1694. He inherited from his fathers of relemined theology and a righty. re of polemical theology, and a violent f the Jesuits, against whom he early of the Jesuits, against • field, and never quitted it till the day of through the labors and influence of the turned only to find that the son reigned stead. . He first studied law, but was or-a priest in 1641. In 1643 we find him that attack upon the Jesuits, the publi-

tory of the eucharist, De la frequents com-munion, which was followed by his admission to the Sorbonne. Next he published his severe strictures on Jesuitic morals. Jansenism had Jansenism had early enlisted his attention, and he now became its most powerful advocate. The Jansenist speculations on the intricate subjects of divine grace and human freedom, were perfectly suited to his mind. He soon put himself at the head of the Port Royal, although those eminent scholars, Nicole, Pascal, and Perrault, had preceded him. From this time he was the great ceded him. From this time he was the great oracle of Jansenism. He was now expelled from the Sorbonne for his controversial attitude, and 80 fellow-doctors, refusing to approve the expulsion, followed him. From his retirement at the Port Royal, he hurled more vigorously than ever the bolts of strife. Pascal's famous Lettres provinciales added new fuel to Arnauld was the soul of these letthe flames. ters, furnishing to Pascal the materials and facts which he adroitly used against the Jesuits. contention ran so high, and the Jansenist party were acquiring such influence, that Clement IX. thought best to secure the peace of the church by a compromise, called the peace of Clement. This conciliation so softened the asperities of Arnauld's temper, that he followed it with a work on the eucharist, dedicated to the pope. This furnished him a new antagonist in the reformed clergy, who violently attacked him. He replied in an elaborate work against the Calvinistic doctrine of justification, which the Calvinistic doctrine of justification, which he charged with reversing the teachings of Christ. He did not, meanwhile, neglect his old antagonista, the Jesuits, but published 8 volumes of strictures on their casuistry. Through the influence of Harlay with the king, Louis XIV., an order was issued for his arrest. To avoid this, Arnauld fled to Brussels. Here he wrote a defence of the Jesuita his old antagonic. wrote a defence of the Jesuits, his old antagonists, from the charges of Oates's conspiracy. Here also he attacked the prince of Orange, William III., styling him Absalom, Herod, and Cromwell. From Brussels he also took up the Cromwell. gauntlet against the philosophy of Malebranche, and wrote so bitterly as to sour and alienate that philosopher, who had before been his friend. Himself a Cartesian, Arnauld was a personal friend of Leibnitz, and entertained the hope of converting him. In all the bitterness the contentions in which a restless spirit involved him, he seems to have had a frankness and sincerity which never failed to secure personal friends among his opponents; and even when engaged in the exceedingly difficult trian-gular contest with Jesuits and Reformers, and under the disadvantage of an expulsion from the Sorbonne, he managed to preserve the respect of all, and the personal admiration of many on both sides. He was one of the most learned men of his age, sincere, but of an inde-pendent mind, simple in his habits, exemplary in his conduct, and a Catholic in spirit. The Jesuits denominated him "the great Arnauld."

cation of which has become an era in the his-

ARNAULT, VINCENT ANTOINE, a French poet, born at Paris, Jan. 1, 1766, died near Havre, Bept. 16, 1834; became first known to fame by a tragedies, Marius à Minturnes and Lucrèce. On the revolutionary outbreak in Sept. 1792, he went to London and Brussels, and on his return, in 1793, he was arrested; but as soon as it transpired that he was the author of Marius à Minturnes, he was set free. In 1797 Bonaparte sent him on a mission to the Ionian islands; and on his return, in 1798, he was made prisoner by the English, but soon recovered his liberty. In 1799 he produced, in Paris, a tragedy suggested to him by his residence at Venice, which was very favorably received, especially by Napoleon himself, before whom he delivered several lectures on Venice. He became, in the same year, member of the French academy; in 1805 he was elevated to the vice-presidency, and in 1808 to the principal secretaryship of the council of the university. All these offices were taken from him after the emperor's downfall, but restored to him during the Hundred Days.

ARND, Johann, a German theologian, born at Ballenstedt, in the duchy of Auhalt-Bernburg, Dec. 27, 1555, died at Celle, May 11, 1621. After having studied chemistry and medicine in several German universities, he applied himself to theology, and was pastor successively at Paderborn and Quedlinburg. In 1599 he was appointed preacher to the court at Brunswick. In 1611 he was presented by the duke of Luneburg to the church at Celle, and he soon after became superintendent of all the churches of the duchy, in which office he remained till his death. His writings are marked by great fervor of devotion, and he has been called the Fenelon and the Å Kempis of the Protestant church. His principal work on "True Christianity" has been translated into almost all languages, and is esteemed alike by scholars and people of humble life. Its picty approaches to mysticism, and it was therefore attacked, during the lifetime of its author, as a dangerous and heretical production. The limited resources of Arnd, joined to the fact that he gave constantly and liberally to the poor, gave rise to a belief, in that age of astrology and alchemy, that he had discovered at last the philosopher's stone, the long-sought secret of making gold.

ARNIT, Ersst Moritz, a German patriot,

ARNIT, EINST MORITZ, a German patriot, and professor of history at the university of Bonn, born Dec. 26, 1769, at Schoritz, on the island Rugen. He studied theology and philosophy at Greifswald and Jena, and after travelling over Europe was appointed professor at Greifswald, where he soon published his "History of Serfdom in Pomerania and Rugen," which roused the wrath of some members of the Pomeranian nobility. In 1807 appeared the first volume of his "Spirit of the Times," containing his attack against Napoleon. Napoleon was then at the zenith of his power, and the German princes trembled at the very whisper of his voice. Arndt had to pay the penalty of his courage, and was expelled from the

country. He betook himself to Stockhein, and, under a feigned name, supported himself by teaching languages. In 1810 he watured, under this incognito, back to Greifwald, but, on hearing of the Russian campaign, he proceeded in 1812 to St. Petersburg. and published pamphlet after pamphlet to rouse the public mind of Europe from its lethargy. Stale, the celebrated minister, was the first to sympthize with his views, and assisted him as much as he could. His cry was, if Napoleon is successful in Russia, Germany is undone. At the time he wrote his book defining the Rhime as German river, and also his stirring national songs. In 1818 he became professor of medium history at Bonn, but he had hardly bean letturing a year when he was compelled to will-draw from the university. His liberal ideas had again given offence at Potsdam. He was tied for treason, but no verdict could be found against him; yet it was not till 20 years showard, in 1840, that the king would allow the professor to teach history again. In 1848 he was sent as deputy to the Frankfort parliament by the 15th electoral district of Rhenish Prosis; he retained his seat until May 21, 1868, when he withdrew from parliament with the whole constitutional party, which was in fewer of an hereditary empire. Arndt's first with died in 1801. His second wife, 'o whom he was married in 1817, is the daughter of the celebrated Schleiermacher. He is the asther of various historical and other works. He most popular song is his Was tet das December Vaterland?

ARNE, THOMAS AUGUSTINE, an English composer of music, born in London in 1710, died March 5, 1778. His father, an upholetere, gave him a good education at Eton, and bound him apprentice to an atterney, with whom he remained three years. Young Arne, however, manifested so decided a taste for music, which he gratified in secret, and sometimes in the most whimsical manner, that his acquirement in the law were but moderate, while in the favorite art, although comparatively unside, he made rapid progress. The consent of the father, who accidentally became aware of the bent of his son's genius, having been obtained, he devoted himself exclusively to musical emposition, and in 1731 set to music Addition's "Rosamond" and Fielding's "Tom Thunk" a work full of original and sprightly melledia, the production of the "Opera of Operas," late of which were received with much favor. In 1788 he wrote the music to Milton's "Custom," a work full of original and sprightly melledia, the production of which formed an arm in the history of English music, and firmly established the reputation of the composer. During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years he wrote operas for During the next twenty years held a preminent place on the formed and produced, and for many years held a preminent place on the formed and the fo

ge. His other most successful works "Judgment of Paris," "Eliza," "Bri-s musical farce, entitled "Thomas and he "Fairies," and the "Stratford Jubi-His oratorios, owing to the competition idel's works, were comparative failures. omposer of songs, Dr. Arne was unsurby any English writer since the time of 1; and many of them, such as "Rule ins," "The Soldier Tired," and some of ma," In a soldier lired," and some of skspeare songs, have maintained their pon popular favor to the present day. rried in 1740 Cecilia Young, afterward a mished singer, and in 1769 received from iversity of Oxford the degree of doctor in the died in the Roman Catholic faith

ARNHEM

He died in the Roman Catholic faith.

had neither the vigor of Purcell nor our and simplicity of Handel; but his

madeur and simplicity of Handel; but his as are always pleasing, elegant, and apth, and his harmonies, without showing assaing, have a fulness and variety which metisty the hearer.

SHEM, also Arnhed, a fortified town Netherlands, capital of the province of isad, on the right bank of the Rhine, hich river it is approached by a bridge s. It is connected with Utrecht by rail-lits population in 1850 was 18,671. It school of art, a gymnasium, and several societies. It is a town of Roman orimansum. In a charter of Otho I., 996, soken of as a village. In 1238 it was by Otho III., duke of Gelderland, as the lace of residence, and strongly fortified. lace of residence, and strongly fortified.

I it was conquered by Charles the Rash pundy, in 1492 by Karl Egmont, duke of and, or Gueldres, and in 1505 by the and, or Gueldres, and in 1505 by the reas, but was recaptured by Duke Karl. is death it went to the duchy of Cleves, an with Gelderland to Charles V. of sad Germany. In 1585 the Dutch capt, and it thenceforward belonged to the Decision of the Property of Provinces. In 1672 the French conit, but abandoned it in 1674. In 1794 again into the hands of the French insamy, and in 1813 was taken by storm low and his Prussians. In 1586 Sír Sidney, the English knight, scholar, and lied here of a wound received in the bat-Zutoben.

viiCA, a genus of plants of the natural vincoita. It grows in the mountainous s of the north and middle of Europe, sing in June and July. In Germany the Leaves, and root, are all employed in ae, principally in cases of low fevers and diseases. A tincture, an extract, an of the flowers, and a vinegar, are all ad from it. The tincture is the common the application for wounds and bruises; first introduced by the homoeopathists, s now come into general use. It is a all preparation, and, having poisonous ties, should be kept with caution.

IM, Ludwig Achma von, born Jan. 26, at Berlin, died Jan. 21, 1831. He was of

an old German noble family, whose name can be traced back into the 10th century, and was one of the founders of the romantic school in German literature. This school, now nearly extinct in its more respectable representatives, was a reaction against a certain intellectual, critical, and sceptical bias of the classical school in poetry, and of the critical philosophy of Kant, Fichte, and their cotemporaries. It strove to reestablish the ancient depth of feeling instead of the existing superficiality of judgment, the beautiful traditions of the middle ages instead of the modern levelling spirit, old fairy tales, magic secrets, mediæval sentiments and superstitions instead of the enlightenment of the century, indistinctness and boundless lib-erty of poetical forms and expressions instead of the classical severity and purity of style, and, in general, the rights of the heart and affections, and the infinite freedom of the individual tions, and the infinite freedom of the individual against the monarchy of the intellect and reason. This school undoubtedly had its good qualities. The Swabian branch of it, represented by Uhland, Schwab, Kerner, Moericke, Pfizer, and others, has the eminent merit of enriching German poetry with the sweetest original lyrics. The northern branch, represented by Arnim Tieck the two Schlegels La original lyrics. The northern branch, represented by Arnim, Tieck, the two Schlegels, La Motte Fouqué, and others, had a more transitory career. It served, however, to remind the literary world of the dangers of over-cultivation of the intellect, and of the almost forgotten treasures of ancient German and Teutonic popular nectors. treasures of ancient German and Tettonic popular poetry. Among the rubbish of this ancient literature, hundreds of pure gems of genuine poesy were exhumed from their graves, and brought to the appreciation of modern taste. Arnim was the most richly gifted among the northern Romanticists, but at the same time the most unpolished and form-less. The more prominent of his writings are the same time the most unpolished and form-less. The more prominent of his writings are Des Knaben Wunderhorn (8 vols., 1806), Winter-garten (1809), Halle und Jerusalem, Studenten-spiel und Pilgerabenteuer (1811), Die Kronen-wächter (1817). His complete works were edited by W. Grimm, Berlin, 1839-'46.—ELIZABETH VON (Bettina), wife of the former, and sister of the poet Clemens Brentano, was born in Frankforton-the-Main in 1785. Her education in almost unrestrained liberty, her friendship with a can-oness, Fraulein Günderode, who committed suicide on account of an unhappy love for the philologist Creuzer, and her peculiarly sensitive nature, have made her one of the most celebrated and remarkable women of the age. Her two works, Goethe's Briefwechsel mit einem Kinde (3 vols., Berlin, 1835), translated into English by herself, a correspondence with Goethe, in which she courts the poet, at that time 60 years old, with a kind of Platonic, child-like, sometimes even affected love, while he patronizes her fancies with a reserved condescension; and *Die Günderode* (2 vols., Berlin, 1840, partly translated by Margaret Fuller), a correspondence between herself and that lady, exhibit an almost intuitive insight into nature, an

idolatrous appreciation of its beauties, a rich lyrical sense, a fascinating, naive, childish feel-ing, a reflection sometimes profound, sometimes full of affectation, and a frank hatred of every thing established, tyrannical, and anti-liberal. Amiable even in her faults, which, with the exception of her wilful style, are the faults of her age in the excessive valuation of merely literary merits, and fascinating in personal intercourse, she made her house in Bertin for some time the great attraction of that metropolis, where the most complete liberty of opinion reigned, and under the name of "Bettina," even in her old age, assembled around herself the literary magnates of the day. She has since been active as a politico-social author, but without great

BUCCE ARNO, a celebrated river of Tuscany, rises in Mount Falterone in the Apennines, 6 miles N. of Prato Vecchio, flows S. to Punte a Buriano, thence N. W. to Pontassieve, where it receives the Sieve, then follows a westerly course through Florence and Pisa, to 7 miles below the latter city, where it flows into the Mediterranean, through a channel cut for it in 1603; length, 150 miles. It is navigable for small vessels from the sea to Florence, but further is liable to be obstructed by floods and droughts. To guard against the former, it has been embanked for the greater part of its course. The valley through which the Arno flows, between Florence and Pisa, is the very garden of Italy, and is famous for its

ARNOBIUS, an African rhetorician, born in the 5d century in Sicca Veneria (Keff), near Car-thage. He was a pagan, and a violent opponent of Christianity (which had been introduced into Numidia as early as A. D. 250), until, tradition says, he was warned in a dream to embrace the new religion. There is some reason to doubt the tradition, and to ascribe his conversion to an independent and rational investigation of the doctrine of the gospels. On his conversion he applied to the bishop of Sicca for admission to the church. The bishop regarded him with distrust, and desired some proof of the sincerity of a man who had been so zealous a defender of paganism. Arnobius, therefore, wrote the famous treatise entitled Adversus Gentes, in which he gives proof of his sincerity, and zeal for Christianity, by exposing the follies and fallacies of his former faith. There has been much question among theologians and chronologists, as to when this work was written. ander considers its allusions to circumstances proof that it was written later than A. D. 308. The dogians as greatly disagree on the general character of the work. Some discern in it the hand of a neophyte, who had no real apprehension of the faith he had espoused; while others see in it the marks of profound philosophical investigation, and find it discordant osephical investigation, and find it discordant with the prevalent expositions of Christianaly, only because it was conducted independently and without probability. pendently and without prejudice. The Adver-

ism, in the conclusion that, since the Sape Being would not have created so imperi work as the human soul, it must have created by some inferior and imperfect and in his image. Following out these splations, Arnobius taught that immortality not an attribute of the soul, but could a acquired by effort to conquer evil, and ri the supremacy of good. The Gnostic to the supremacy of good. The Gnestic tea cy is also seen in his treatment of the char-of Christ. The work of Arnobius is intere of Christ. The work of Arnobius is inter in a historical light, as an indication views which an independent neophyte te the gospels, combined with the prevalent is ences which surrounded him in Christian rica. It also yields much valuable infor

to the student of mythology.

ARNOLD, BENEDICT, an officer in the As can revolution, and a traitor to the came of his country, born at Norwich, Connecticut, Jan. 8, 1740, died at London, June 14, 1801. His page was respectable, his education such a common schools of the time afforded, and be we destined, by his friends, for a mercantile in Apprenticed to druggists, he twice left the and enlisted in the army, from which he deserted not without great danger. His disp sition was little fitted for trade, and amou companions he was always noted for rech-less spirit and daring as well as unprinciple conduct. Having embarked in business at Sec Haven as a druggist, he united to this p trade with the West India islands, and v owner of several small vessels, sometimes a ing them in person. In this mercantile prise, he, at one period, failed under rational suspicious circumstances. When the war independence began with the battle of Lexiton, Arnold, who was the commander of a s litia company styled the "governor's guard at once abandoned trade, and with his tree marched for Cambridge, the head-quart the Massachusetts committee of safety, as fered his services. They were accepted, is was commissioned as colonel, and, at his our instance, despatched on an expedition a Forts Ticonderoga and Crown Point, 2 important posts held by the British true party of "Green mountain boys," led famous Ethan Allen, had marched age conderogs, and Arnold overtaking these his commission from his pocket and at led by to take the command from Allen. this, he volunteered his services, and capture of the fort, marched into it by side. Shortly after this, he greatly disting himself by the seizure of St. John's, at the of Lake Champlain, and with a small fle annoyed the enemy in several other is. But even at this early period he be volved in troubles of a pecuniary nata appeared to beset him during the wh military career, and in this instance Massachusetts committee of safety. It his drafts upon them with a release

maspicion of their worth. He now rein anger, but was very soon again I in an enterprise of much greater ace against the Canadas, and was ed, in connection with Gen. Richard mery, to the command of an expeditore object was the capture of Quebec. was well fitted for such a distribute received was unproposed. was well litted for such a difficult en, as his military genius was unquesrequal, if not superior, to that of any evolutionary officer. His forces emat Newburyport, and sailed for the criver, in Maine, leaving their vessels at near the present town of Gardiner. their march lay through the wilderness of Onebec, in the short and chilly days of Quebec, in the short and chilly days of In the face of continual dangers and n, through pathless forests, over swollen id rivers, suffering from cold, from hunam the treachery of guides, from the and desertion of troops, Arnold held on, cheering his men, conciliating the man, eluding the vigilance of the enemy. til Nov. 9 did he arrive on the banks of
Lawrence opposite to Quebec, having
a but 700 men. Joined by Montgomery,
d arrived by another route, the Americes attacked Quebec Dec. 31, 1775, but
ambers were too feeble to carry it by
Montgomery was killed before the
sich he had assisted in taking under
command, 16 years before. Arnold
y severely wounded in the leg. The
ise against Quebec failed; Arnold reMontreal, where his fair fame was
slied by dishonorable transactions conwith the traders of the place, whom he
ad and despoiled. For this conduct he
ach censured both before and after the censured both before and after the of the continental forces from Montreal, ras doubtless the first important link in in of incidents which led to his final His gallant conduct, however, at the g of Quebec, added to his skill and persee in forcing a march through the wilwon the approbation of congress and to the rank of brigadier-general. could not remain idle, and he was ap-I to the command of a small fleet on Thamplain, and Oct. 11, 1776, fought a te battle with a very superior force of my. Arnold's flotilla consisted of but ssels; 8 schooners, 2 sloops, 3 galleys, olas. That of the enemy comprised ondolas. with 3 masts, 2 schooners, a radeau, 1 20 gun boats, and 44 boats with pro-and troops. The action lasted from 12 o'clock, when the British drew off, and finding his forces too much crippled to : another battle, passed through the line, at night, without discovery. The orning, however, he was pursued, and at was renewed for 4 hours, with the courage on Arnold's part, when, finding likely to be surrounded, he drove his on shore, set fire to them with their

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flags still flying, and was the last man to leave his vessels. He arrived safely with his men at Ticonderoga, and although not crowned with victory, his unflinching courage caused him to be regarded by his countrymen, as one of the first of American heroes. He was next sta-tioned at Providence, the head-quarters of the eastern army, making preparations to attack the British, who had landed at Newport with large forces, and taken possession of the island. An attempt to dislodge them failed, from the inability of Arnold to raise troops in sufficient numbers to insure success. While engaged in this manner, the action of congress in creating 5 major-generals, all of them his ju-niors in rank, without naming him, caused him the most bitter mortification, and had great in-fluence on his subsequent career. His brilliant the most bitter mortineation, and had great influence on his subsequent career. His brilliant exploits deserved reward, and it must be confessed that his treatment by congress in this instance was undeserved. From this moment he began to talk of the ingratitude of his country, and unprincipled as he was at all times, this incident led him to meditate revenge. Washington himself was much concerned Washington himself was much concerned at the course that congress adopted, and wrote a soothing letter to Arnold, entreating him not to resign or act hastily, as his merits would, sooner or later, be acknowledged. With this kind advice Arnold complied, but at length determined to visit head-quarters, and obtain permission to visit Philadelphia, and in person claim his full rank from congress. On his way permission to visit Philadelphia, and in person claim his full rank from congress. On his way from Providence through Connecticut, he fell in with Generals Silliman and Wooster, who had suddenly collected a body of 600 men, marching to meet the British force of 2,000 under Governor Tryon, who had landed near Fairfield, and was ravaging the country. In an engagement which ensued near Danbury, Arnold took part and greatly distinguished himself. nold took part and greatly distinguished himself. He at one time had a horse shot under him, and a British soldier seeing that he was unhurt rushed forward to transfix him with his bayo-net. Arnold sat still upon his fallen steed until the man came within range, when, drawing a pistol from his holsters, he shot him dead. Such cool bravery should at once have earned for him his just rank, but strange to say, confor him his just rank, but strange to say, congress, although it created him a major-general, still left him below the 5 others recently commissioned, and presented him with a richly caparisoned horse, a gift which did little to soothe his wounded feelings. He now took command, for a season, of the army gathered near Philadelphia, but always preferring active service was soon sent to join the northern army under command of Gates. In this capacity. under command of Gates. In this capacity, he displayed his usual ability in an expedition to relieve Fort Stanwix, besieged by St. Lene displayed his usual ability in an expedition to relieve Fort Stanwix, besieged by St. Leger, the British commander, with a large force of English, Canadians, and Indians. In the several battles of Bemis heights, Arnold bore a most distinguished part. In the first encounter, Sept. 19, 1777, he was prevented by Gates from assuming command nearly the whole day, while

Gates himself took no part in the strife. conduct can only be explained by Gates's jeal-ousy of Arnold. In the second battle, Oct. 7, he entered the field without Gates's permission, rushed into the thick of danger, and appeared almost beside himself. The day was closed by a brilliant maneuvre, the enemy's works stormed, the Hessians driven from their en-campment, while Arnold's horse was killed beneath him as he role into the sally port, and his own leg shattered by a ball. He was re-moved to Albany, where he was confined to a sick bed from his wounds all the winter, while congress at last did him justice and allowed him full rank. In June, 1778, a few days after the British had evacuated Philadelphia, Washington appointed Arnold to the command of that city, as the state of his wound would not permit him to resume active duty. Washington, al-though he could not respect Arnold's private character, was ever the first to acknowledge and defend his public ability. In Philadelphia, his evil genius again appeared to beset him with like troubles to those in which he was involved with the Massachusetts committee of safety and the merchants of Montreal. He governed with a high hand, and ill-disguised mercenary mo He became hated, he was mobbed, charges were preferred against him by the council of Pennsylvania, after he had, for 7 or 8 months, been creating discontent and trouble by his conduct. The whole matter was laid before congress, and it was decided that as Ar-nold was a United States officer he should be subject to a court-martial by a military tribunal, but it was not until after he had resigned his command at Philadelphia, March 18, 1779, not, indeed, until Jan. 26, 1780, that the trial was con-cluded, it having occupied several weeks. Al-though acquitted of actual criminal intent, he was adjudged to be reprimanded by the commanderin-chief, and the sentence, though mildly administered, roused within him a spirit that thirsted for vengeance.—He had conducted, with much skill, his own defence before the court, and with every appearance of sincerity used the following words: "Conscious of my own innocence and the unworthy methods taken to injure me, I can with boldness say to my persecutors in general, that in the hour of danger, when the affairs of America were a gloomy aspect, when lairs of America were a gloomy aspect, when our illustrious general was retreating through New Jersey with a handful of men, I did not propose to my associates basely to quit the general, and sacrifice the cause of my country to my personal safety by going over to the enemy and making my peace." It was subsequently discovered that at the curve instant of this and making my peace." It was subsequently discovered that at the very instant of this speech he had been for 8 months in secret plotting with the enemy.—And now the scene of his great treason opens! Hated by many pernotes, loved by none, stung to the quick in mind, desperate in fortune—for his debts, owing to his extravagance, had accumulated enormously -bathed in his attempt to obtain a large sum of money from the French minister, he seemed

to be driven to such a pitch of frenzy that could perceive only misery and disgrace by fi ther attachment to the cause of his country, while traitorous desertion promised security a wealth. Another event, while he was statio at Philadelphia, probably had great influent This was his second marriage, to Miss Marg This was his second marriage, to must margine. Shippen, daughter of Mr. Edward Shippen, who was afterward chief justice of Pennsylvania. At that time, however, the family, one of the most distinguished in the state, was struggly attached to the tory interest. Miss Shippen attached to the tory interest. Miss Shi was a great favorite with the British of and, no doubt, produced some bias on his a after her union with him. She is de after her union with him. She is described as eminently beautiful in person and character, and, though unconsciously swaying him after his faith to his country had begun to wave, so proof that she knew of his nefarious purposes he ever attached to her.—Arnold had solicited Washington for the command of West Point, on the Hudgen sixes. Although the commands the Hudson river. Although the comman in-chief at first expressed much surprise that a officer of such active disposition, now that he had recovered from his wounds, should be content to remain in garrison, Arnold plansibly overcame his scruples, and Aug. 3, 1780, took command of the fortress and established his head-quarters at a house on the opposite ba West Point, and a mile or two below. West Point, and a mile or two below, house had belonged to Col. Beverley Rol who was the son of the former celebrated as er of the house of burgesses of Virginia. had been a friend of Washington in ye but had joined the royal cause, and his proper lying about West Point was confiscated by the state of New York. West Point was the st est and most important post in the Use States, considered as the American Gibra and "the key of communication between eastern and southern states," so that when nold had fully committed himself to the wi edness of treason he wished to deliver into the hands of the enemy a trust of such imports as would insure almost certain ruin to th nial cause, and for himself a splendid rem -The treasonable correspondence b Arnold and Sir Henry Clinton, the British com Arnold and Sir Henry Clinton, the British commander-in-chief, had now been carried on it is months with entire secrecy, and in such manner as to excite no suspicion in case letter should miscarry. They were written in diguised hands, Arnold using the signature of Gustavua," and Maj. John André, who in its commandation of the Signature of the Si **h a** "John Anderson." One specimen of this respondence will show its art and purpost nold, writing to André, 1780, a mosth be the treason was discovered, says (a himself in the third person, and he for an interview), "You will be able your commercial plan, I hope, agreeab parties. He is still of opinion that his posal is by no means unreasonable, as no doubt when he has a conference what were with these wish it. He can was discovered, says (all no doubt when he has a co that you will close with it.

you will be fully authorised from your house, that the risks and profits of the copartnership that the risks and profits of the copartnership may be clearly understood. A speculation might at this time be easily made, and to some advantage, with ready money." From information given to Sir Henry Clinton during the correspondence, and which proved perfectly correct, he finally discovered that the traitor was no less a personage than Gen. Arnold, who, a few days before obtaining West Point, apprised the British commender that he should soon be in the British commander that he should soon be in rvice again, ready to surrender himself under freamstances which should confer the greatest smallt on the royal cause. The plot was now ripe, and Arnold only wished to have a personinterview with some one "of his own men-eration," in order that every point should be stiled by debate which would have been im-combine in correspondence. He fixed upon Major settled by debate which would have been impossible in correspondence. He fixed upon Major André, who was a friend and even correspondent of Mrs. Arnold, and from her he doubtless had a good idea of his character. André at first was very unwilling to undertake such risk, but finally yielded to the wishes of Sir Henry Clinton.—It was now necessary for Arnold to ast with the greatest caution. He had determined, if possible, to bring André to head-quartera, and accordingly wrote to Col. Sheldon, commanding a troop of horse at Salem, Westchester co., that he expected a person to come out from New York with a flag, and if he did, to meet him at Dobb's Ferry, and thence give him an escort to head-quarters. He wrote André at the same time, who refused to comply with his request, but who, signing as "John Anderson," informed Col. Sheldon that on Sept. 11 he hoped to meet Mr. G. ("Gustavus") at Dobb's Ferry. Sheldon did not exactly understand this letter and sent it to head-quarters, anying that he would be unable to meet the flag, but hoped that Gen. Arnold himself could. Arnold at once replied, explaining André's mysterious letter in the most plausible manner, and Arnold at once replied, explaining André's mys-terious letter in the most plausible manner, and adding that as he had business at Verplanck's Point he would continue down to Dobb He did so; but, from some unexplained reason, André and Beverley Robinson, now cognizant of the whole scheme, did not appear, and no meeting took place. While at the ferry he wrote to Washington, who was encamped with the main army at Tappan, meditating an attack on New York, that he came down the river to examine its defences and establish a line of signals. Another meeting was now appointed for Sept. 20, he informing André that he must assume dise, and would be met by a trusty person on the east side of Dobb's Ferry. Meanwhile Clinton, tired of delay, sent the Vulture sloop-of-war up the Hudson as far as Teller's Point, with Beverley Robinson on board. Robinson, in order to inform Arnold of his presence, wrote him a letter asking an interview, ostensibly in regard to his West Point property, and another of the same purport to Gen. Putnam, pretending to think that he was then in the Highlands. These letters were openly despatched by a flag-boat to Verplanck's

Point, 6 miles above the Vulture's anchorage. That very day, Monday, Sept. 18, when a conference seemed so easy, new troubles sprang up in the path of the traitor. Washington, anxious to meet the count de Rochambeau at Hartford, came up, with his suite, to Verplanck's Point, a few hours after the reception of the letters, which Arnold, with cool audacity, showed to him, he having heard of the commander-inchief's approach and come down from headchief's approach and come down from head-quarters, with a show of respect, to meet him. Washington strongly advised Arnold not to see Robinson, saying that after all of Arnold's troubles a conference with a tory would be likely to injure him in the public estimation. He then, with his suite, of whom Lafayette was one, crossed the river in Arnold's barge, and, look-ing at the Vulture through his glass he spoke in ing at the Vulture through his glass, he spoke in low tones to those about him, while Lafayette, in allusion to the interchange of news then common between West Point and New York, said: "You have a correspondence with the enemy, Gen. Arnold, and must find out what has become of Guichen"—Guichen being then looked for with a French squadron. Arnold was greatly confused, and afterward confessed that he thought the treason was discovered. He ac-companied Washington as far as Peekskill, and the next day, returning to head-quarters, boldly wrote to Robinson, saying that the commanderin-chief would not permit a conference, and re-ferred him to the civil power. But within this letter were two others, one again to Robinson saying that on the next night he would send a saying that on the next night he would send a trusty person to Dobb's Ferry, or on board the Vulture, advising, also, that she should remain where she was. The other was a copy of his late one to André. All 3 were at once sent off from the ship to Sir Henry Clinton, who despatched Major André on the morning of the 20th to Dobb's Ferry, when, meeting no one, he pushed on and reached the Vulture at 7 o'clock the same evening. Before leaving at 7 o'clock the same evening. Before leaving New York, Clinton gave him the most positive Before leaving New York, Clinton gave him the most positive instructions not to go within the American lines, not to change his dress, and above all not to take any papers. No boat came off to the Vulture as André had expected, and for good reason. Joshua H. Smith, living near the village of Haverstraw, a man of respectable family and of fair outside character, had been employed by Arnold and his predecessor at West Point, Gen. Howe, in gaining intelligence of the ene-Gen. Howe, in gaining intelligence of the enemy. In this instance, Arnold had used him for his own purposes, and made him aware that he expected to hold a conference with a person on important civil business from New York. There is good reason to believe that Smith knew more of the plot than he ever professed to, although much obscurity rests on his share in the transaction. Smith was to go to the Vulture and bring "Mr. Anderson" on shore, but could get no boat, and at once despatched one of his farm hands to head-quarters. Arnold sent the man back with some simple message, and at once went down himself to Verplanck's Point, thence

despatched an officer in his own barge up to the "Continental Village," on a little creek some miles above, to bring down a boat, which he ordered the quartermaster at Sony Point to send into Haverstraw creek, near Smith's house. That night, Sept. 21, 1750, about 11 o'clock, Smith and 2 hands pulled with muffled oars to the Vulture: returning at a late hour with the Vulture; returning at a late hour with Major André, who, anxious to bring matters to a conclusion, determined to go on shore, in spite of Robinson's remonstrances. He wore his uniform coat, but over it a large blue sur-tout which completely hid his regimentals. He landed at the foot of Clove mountain, 6 miles below Stony Point, and Smith conducting him to Arnold, who was waiting among the bushes, left them alone together. It being near morning when he landed, the plotters had not sufficient time to conclude their conference, and at Arnold's instance André mounted a horse and they rode together to Smith's house. The challenge of a sentinel demanding the countersign, was the first intimation Andre had that he was within the American lines, and he was much alarmed,—and still more so when he heard a cannonade down the river and saw the Vulture fired upon from below Verplanck's Point, and obliged to drop down stream out of the reach of shot. After breakfast the plotters concluded their plans, and Arnold set off about 10 o'clock and returned to hand average. 10 o'clock and returned to head-quarters; he never saw André more. What his reward was never saw André more. What his reward was to have been had the scheme succeeded, has never come to light, but it was no doubt im-mense. The day was fixed for striking the mense. The day was fixed for striking tue great blow: the British troops were already embarked under the pretence of invading the Chesapeake, and the moment that Arnold knew they were on the move he was to give "an alarm," and draw the troops out of the garrison, and scatter his forces, while the enemy, by routes which had been fully agreed upon, should march at once into the several forts, meeting but little opposition. Now that André was within the American lines he found it necessary to leave off his uniform and assume disguise. Smith intimated his surprise that a person coming on civil business, should wear the dress of a British officer, and Arnold readily quieted his suspicions by informing him that "Mr. Anderson" was a man of such vanity, that he al-ways wished to make a display, and in order to do so on this occasion had borrowed a cost of a military friend. Before parting from André he gave him a passport worded thus: "Head-quarters, Robinson's house, Sept. 22, 1780. Permit Mr. John Anderson to pass the guards to the White Plains, or below if he chooses, he being on nubbe business by my direction. B. being on public business by my direction.

Arnold, M. Gen." He also gave him 6 o He also gave him 6 other Arnold, M. teeh." He also gave him a other papers: 1. "Artillery orders, which had recently been published at West Point, giving directions how each corps should dispose of itself in case of an alarm;" this paper was of the utmost consequence, as it enabled an enemy to know the precise position of the garrison. 2.

"An estimate of the forces at West Point and its dependencies." 8. "An estimate of the number of men requisite to man the works. number of men requisite to man the works."

4. "A return of the ordinance in the different
forta, redoubts, and batteries."

5. "Remarks
on the works at West Point, describing the
condition of each, and its strength or westness."

6. "A report of a council of war lately
held at head-quarters, at Tappan," which
Washington had sent to Arnold only a few days before, requesting his opinion on the subjeto which it referred. Thus almost in spite himself André had violated the positive instritions of Sir Henry Clinton. He was captured the control of the contro the next day at Tarrytown, and deliver Col. Jameson, at North Castle. With w to send his prisoner to Arnold, writing him the same time that papers of a dangerous to dency had been found upon him, which he a forwarded to Washington, at Hartford. Maj Tailmadge, next in command to Jameson, re-turning to North Castle in the evening from duty near White Plains, was astonished at his superior officer's blindness, and induced him to order André back, although Jameson would issist on his letter to Arnold going on. That same day Washington returning from Hartford to Robinson's house, met the French minister, M. de Luzerne, at Fishkill, the minister being on his way to Newport. He induced Washington to stop for the night and the next many ington to stop for the night, and the next more ing on nearing Arnold's head-quarters, the com-mander-in-chief sent forward 2 aids to say that he would soon arrive, but must ride down by the river's bank with Generals Knox and in Fayette, to examine some redoubts. General. Fayette, to examine some redoubts. General and Mrs. Arnold, who with her infant child it come from Philadelphia but 10 days before, in company with the aids sat down to breakfi A messenger came in express bearing Jamesen's letter announcing the capture of "Anderson." Startled, but with wonderful presence of mind. Arnold told the aids that he was suddenly called over to West Point, and would acce return to meet Washington. Then summoning his was to meet Washington. Then summoning his to her chamber he said that they must ins ly part, perhaps never to meet again, a must fice at once to the enemy. She swe upon the floor, and he left her in convul hie hurried to the door, mounted the means house dashed to the right of the means the same dashed to the means the same dashed to the means the same dashed to the same time. horse, dashed to the river's bank, and fi 6-cared barge in waiting, ordered the once to row down the river with strength, and he would reward the strength, and he would reward them we They bent to their oars, and as they pull through King's ferry, Arnold showed a which handkerchief, which at Verplanck's Point came the boat to be mistaken for a flag. He reache the Vulture in safety, and to complete his i iquity turned on the boatmen and "rewarded them by asying that they were prisoners of we As soon as Sir Henry Clinton heard of this meanness, he set them all at liberty.—A few hou after his escape he wrote to Washington, chiefly in regard to Mrs. Arnold; but, allulington.

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descriton, he spoke of the attachment he still held for his country, and of "a heart conscious of its own rectitude." Meanwhile Washington suspecting nothing, came to the house after Arnold's flight, breakfasted hastily, and went over to West Point to meet him. No preparations for a salute were visible, and he was much surprised to learn that Arnold was not there. He returned, after examining the va-rious defences, about 4 o'clook, P. M., and was met by Col. Alexander Hamilton, who was saxiously awaiting him, Mrs. Arnold being frantic with grief and terror. The despatches from Jameson had been faithfully cared for, and the messenger learning on the road that he had left Hartford, turned back and came direct to Robinson's house. He said the papers he bore were of the utmost consequence, and Hamilton opened the packet. The whole plot was r vealed, but too late to prevent the escape of the traiter, through the stupidity of Lieut. Col. Jameson.—The subsequent career of Arnold may be told in a few words. He joined the British army and took part in an expedition against Virginia, and afterward against New London, in Connecticut. In the latter instance has is said to have witnessed from a church London, in Connecticut. In the latter instance he is said to have witnessed, from a church steeple, the burning of New London, with feedish cruelty watching this destruction almost in sight of his native home. After the surrender of Cornwallis, at Yorktown, he went to England, but was only partially rewarded for his treachery by the payment of £6,300. His position was humiliating, for nearly every one avoided him with diagnet and horror and he one avoided him with disgust and horror, and he was repeatedly insulted. At one time he engaged in business at St. John's, New Brunswick, and at Point Pitre, Gaudeloupe, but returned to England where he sunk into utter obscurity. children. For a full account of Arnold's treason see Sparks's "American Biography," and Washington Irving's "Life of Washington."—JAMES ROBERTSON, 2d son of the preceding, born in the United States in 1780, the same year in which his father disgraced himself by betraying his country, died in London, Dec. 27, 1854. In 1798 he entered the British army 1854. In 1798 he entered the British army as 2d lieutenant, and, after having taken an active part in the blockade of Malta and the Egyptian campaign, he was gradually promoted to the rank of lieutenant-colonel. Subsequently he served in the West Indies, Bermuda, and North America. While engaged in the attack of Surinam he displayed great courage, and was severely wounded, on which occasion he was presented with a valuable sword by the patriotic fund. After his return to Facility fund. After his return to England he was for some time attached to William IV. as aide-de-He was promoted to the rank of colonel in 1837, of major-general in 1841, and of lieutenant-general in 1851.

ARNOLD of Brescia, one of the most noted of reformers before the Protestant reformation. The year of his birth, early in the 12th century, the names and rank of his parenta, are

all unknown. He first appears in history as a scholar of the French rationalist Abelard, and from the first was distinguished among his fellows by a finished and most persuasive eloquence. Returning after a time to Italy, the land of his nativity, he found scope for his peculiar gift in contending with the wide corruption which prevailed in all parts of the ecclesiastical administration. He attacked with vigor the luxury, the venality, the indifference to re-ligious duties, and the degrading worldliness of the clergy against which the authorities of the church presented no effectual resistance. The special doctrine which he maintained was the antagonism of the church to the world. held that the same man ought not to hold secuheld that the same man ought not to not secular and religious office, or to take care at the same time of property and of souls. This doctrine (which was only the application of the ground principle of the monastic life to the general affairs of the church), urged by the wit, the vehemence, and the persuasive voice of so devoted an advocate, speedily made for him a master which was joined by men of influence as party, which was joined by men of influence as well as by the masses. Disturbances broke out, the clergy protested, the bishop of Brescia became alarmed, a complaint was sent to Rome, and at the council of the Lateran in 1139, Arnold was condemned as a disturber of the nold was condemned as a disturber of the peace, forbidden to preach, and banished from Italy. His party, however, was not annihilated, nor his influence destroyed. In France, where he went to visit Abelard, whose name had been joined with his in the sentence of condemnation, and in Switzerland, where he preached for some years, he gained many adherents. Meanwhile, a bold application of his principles had been attempted in Rome itself. The demands of the papal see excited a republican movement, and a secular president was appointed to govern the state, while the was appointed to govern the state, while the pope was restricted to the exercise of spiritual authority. This change in the national govern-ment being negatived in the sacred chamber, a revolt broke out, and the pope was forced to leave the city. Summoned back by a call which he could not disobey, Arnold assumed the direction of the movement, and for a time his influence seemed likely to restore to the Romans their ancient freedom in connection with order. But the license of rioters hindered his plans, reaction came, one by one his reforms were nullified, and the unfortunate murder of a cardinal in the street enabled the murder of a cardinal in the street enabled the English pope Adrian to turn against this alleged disturber of the peace, and enemy of the church, the sympathies of the fickle populace. Arnold and his friends were driven ignominiously from the city in which they had so strenuously labored. Some of them returned to Tuscany, where they celebrated the virtues and the heroism of the suffering "prophet." Arnold himself sought refuge with some noblemen of the country, but the demand of the pope for his surrender, enforced by the threatening of the emperor Barbarossa, frightened his protectors 150 ARNOLD

into compliance, and Arnold was sent to execution. He was hanged, or, as some say, crucified on the Piazza del Popolo, his corpse was burned, and his ashes thrown into the Tiber, to hinder, as the historian Otto of Freisingen remarks, "the stupid people from worshipping his relices," This event took place in the year 1155.—Arnold's importance in history consists in the fact that he was the first to proclaim and organize a revolt against that claim of Rome which Hildebrand had secured to the church. He was not a heretic in doctrine, nor had he any share in the philosophical and scholastic revolution inaugurated by his master Abelard. He was rather what Baronius calls him, "the patriarch of political heretics." His private life was above reproach, and his enemies regretted that so good a man should do so bad a work, that a practice so pure should accompany a doctrine so pernicious. His charm of person was such as to win to him men of differing opinions, and fit him eminently to be leader of a party. His strength and his weakness were both found in the single idea which he seemed to represent, and the single cause to which he gave himself, the separation of church and state. His doctrine was, however, in advance of his age, and could find its full expression and power only after many centuries.

ARVOLD, Christoph, a German astronomer, born at Sommerfeld, near Leipsic, Dec. 17, 1650, died April 15, 1695. He was a simple farmer, who devoted his hours of leisure to the observation of the stars. He erected an observatory at his own house, and entered into correspondence with the most learned savants of his time. He was the first to call the attention of the astronomers of Leipsic to the comets of 1683 and '86. He also acquired great fame by his observation of the passage of Mercury across the sun's disk, Oct. 31, 1690. The town council of Leipsic gave him a present of money and exempted him from all city taxation for life. The astronomer Schröter has bestowed the name of Arnold on 3 valleys in the moon.

The astronomer Schroter has bestowed the name of Arnold on 3 valleys in the moon.

ARNOLD, Groro Daniel, a writer in the Alsatian dialect, born at Strasbourg, Feb. 18, 1780, and died 1829. In 1806 Arnold was made professor of civil law at Coblentz. His Pfinget-montag (Whit-Monday) is a comedy in the Alsatian dialect. Goethe, in his Kunst und Alterthum, speaks in high terms of its truthfulness and artistic power.

ARNOLD, GOTTFEIRD, a Lutheran theologian, and historiographer of king Frederic I. of Prussia, born at Annaberg in Saxony Sept. 5, 1665, and died of fright on seeing Prussian recruiting officers enter his church while he was preaching, May 20, 1714.

ARNOLD, JOHANN, a Prussian miller, whose

ARNOLD, Jonass, a Prussian miller, whose name acquired some importance in Prussia, from to connection with a law case, which gave an opportunity to Frederic II. to display a certain despute sense of justice. Arnold had to pay an annual rent for the land and water which he

required to carry on his business, when the owner laid out a new pond which absorbed all the water, and the supplies for the mill were cut off. Yet when the rent day came, not the least allowance was made by the landlord. He insisted upon the money, and as the miller had not got it, the mill was seized, and the post fellow who had a large family was left to starve. The miller brought his case before the king, who put it into the hands of one of his superior officers, and on a decision in favor of the landlord the king ordered the arrest of all the judical parties connected with the case. However, when the matter was brought before the highest court of appeal, the judgment of the lower court was confirmed, and the judgment passed by the officer of the king became invalid. But the king took no notice of the decision of the courts. The 6 magistrates who had pronounced in favor of the landlord were disminsed, held in durance for a year, and in conjunction with the landlord were condemned to pay damages to the miller. The governor of the district, under whose eyes the case was allowed to pass, was also disminsed. Public sympathy was excited in behalf of the magistrates, and after Frederic's death they were reinstated in their position.

AROLD, John, the inventor of the expansion balance, and of other improvements in the mechanism of chronometers, born in Corawal, England, in 1744, died Aug. 25, 1799. At first an itinerant repairer of clocks, his talent at length recommended him to the notice and patronage of George III., and after a series of experiments he succeeded in making such superior chronometers, that those of his manufacture were commonly selected by the East India company. They were so accurate, that the board of longitude allowed him several premiums for them.

Its were so accurace, that the beat of them.

ARNOLD, LEMUEL H., governor of Rhote Island in 1831 and 1832, born at St. Johnsbury, Vt., Jan. 29, 1792, died at Kingston, R. L. June 27, 1852. He graduated at Dartmouth college in 1811, studied law with James Burrill, and after practising his profession for a time, engaged in manufacturing. After holding the office of governor, he sat as a representative in congress, from 1845 to 1847. His father was a member of the continental congress.

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ARNOLID, MATTHEW, son of Thomas Arasid, born Dec. 24, 1822, at Laleham. He was educated at Winchester, Rugby, and Oxford; was the Newdigate prize for English verse by a poem entitled Cromwell; in 1845 was chesta fellow of Oriel college; from 1847—31 was private secretary to Lord Lanedowns. Having married, Mr. Arnold received an appointment as one of the lay inspectors of schools under the committee of the council of education. In 1866 he published, anonymously, a small volume of poems under the title "The Strayed Reveiller and other Poems." In 1863 a second websare appeared, "Empedocles on Ætna, and other Poema." In 1863 a new volume was issued in his own name, followed by a second series, the

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col- and strong convictions, but withal very gener-

two containing such poems in the previous collections as the author wished the public to preserve, along with some fresh pieces. The introduction to the American edition (Bosmon, 1856), sets forth Mr. Arnold's theory of the poetic art, the peculiarity of which is expressed in a brief extract: "In the sincere endeavor to learn and practise, amid the bewildering confusion of our times, what is sound and true in poetical art, I seemed to myself to find the only sure guidance, the only solid footing among the ancients." Following this principle, the poet carefully selects a theme that is removed by distance from the passing of the present time, and treats it in a calm and elevated style, deeply thoughtful, reflective, and highly finished, not wanting in subdued and severity of taste. His cast of mind is contemplative, and he is a thorough scholar in classic and romantic lore. But the descriptive passages in his volume indicate a genial sympathy with nature, and a delicacy of handling that is very rare. On May 5, 1857, Mr. Arnold was elected professor of poetry, at the university of Oxford, in the room of the Rev. Thomas Legh Claughton, whose term of office had expired. He was opposed by the Rev. John Ernest Bode, also a distinguished member of the university, and, after an unusually spirited contest, was elected by a considerable majority. The office, held for 10 years, is one of greater honor than emolument.

ARNOLD, Dr. Samuel, an English writer of music, born in London in 1789, died Oct. 22, 1802. At the age of 21 he became composer to Covent Garden theatre, a post which he held, with occasional intervals, during the greater part of his life. He published no less than 47 operss, of which "The Maid of the Mill" was for many years a favorite on the stage. "The Prodigal Son," an oratorio, also had remarkable success. About the year 1786 he produced 4 volumes of cathedral music, which have always been held in high esteem, and are still a standard work. His published works, beside those enumerated, were very numerous.

ARNOLD, Thomas, D. D., born at Cowes, Isle of Wight, June 18, 1795, died at Rugby, June 12, 1842. His father, William Arnold, was collector of customs at that place.

ARNOLD, THOMAS, D. D., born at Cowes, Isle of Wight, June 13, 1795, died at Rugby, June 12, 1842. His father, William Arnold, was collector of customs at that place. No incidents render his life remarkable. It was the life of a studious, thoughtful, earnest, and Christian man. When 8 years old he was sent to Warminster, and at 12 to Winchester college, where he was known as an indolent, shy, and restless boy. In 1811, having obtained a scholarship at Corpus Christi, he removed to Oxrard poetry, and gave much time to the study of ancient historians and philosophers, especially of Aristotle and Thucydides. At this period of his life he was addicted to discussion. He was eager in argument, fearless in taking and firm in defending his positions, with liberal tendencies,

ous, high-toned, and affectionate. In 1814 he took a first class degree, and the year after was elected fellow of Oriel college. In 1815 and 1817 he was chancellor's prizeman for the chancellor's prizeman for the ish essays. His mind had been Latin and English essays. troubled with religious doubts, but these were completely overcome, and in 1818 he was or-dained deacon, in 1828 priest, and assumed the office of chaplain at Rugby school. In 1820 he married Mary, the youngest daughter of Rev. J. Penrose, rector of Fledborough, Not-Rev. J. Penrose, rector of Fledborougn, Not-tinghamshire, and resided at Laleham, near Staines, where he had settled the year before, and employed himself in the preparation of young men for the universities. In this quiet retreat, under the influence of domestic ties, and the cares of a responsible office, his char-acter underwent a decided change. His views of life became fixed and serious, his purposes earnest, his aims decisive and lofty. From this earnest, his aims decisive and lofty. From this point his career seems to have fairly commenced. So well known was he, that on his application for the post of head master of Rugby school, he was elected, though others had applied before him, the trustees being assured that "he would change the face of education all through the public schools of England." He entered upon the duties of this office in August, 1998, and devoted to it all his powers of mind and character with an effect that more than satisfied the expectations of his friends. His peculiar gifts as an instructor, and the singular force liar gifts as an instructor, and the singular force of his personal qualities, raised the Rugby school to a position of great eminence, and elevated the intellectual and moral standard of similar the intellectual and moral standard of similar institutions in other parts of England. Dr. Arnold enlarged the basis of education at Rugby by adding to the classics other departments of learning; but his influence was chiefly felt in the practical bearing upon life and character which he gave to all education, and in the lofty Christian spirit which he processed to import to his scholars. For the endeavored to impart to his scholars. endeavored to impart to his scholars. For the sake of moral government, he substituted for the old system of fagging, a responsible supervision of the younger lads by the boys in the highest cluss—a plan that was criticized in some quarters, but which he defended in the "Journal of Education," 1834—'5. Fourteen years, the last years of his life, Dr. Arnold spent in this congenial occupation, dignifying the office of teacher, and, arduous as his duties were finding er, and, arduous as his duties were, finding leisure to bestow his attention upon other matters of private and public interest. His literary labors were not suspended. Into the politi-cal and religious questions of the day he entered with zeal. He was a strenuous opponent of the new school at Oxford. He took part in the debate upon church and state, wrote a pamphlet in 1833, upon "Church Reform," and later, "Fragments upon the Church," in which he contended earnestly against the advocates of the state church theory, opposed the legal establishment of a sectarian religion, and urged that church and state, instead of being formal-

ly united as two separate interests, should rather be identified, the state being in fact the working church, applying through its laws and institutions the principles of a vital Chris-tianity to the world of human life. This idea of the essential harmony, and the necessary cooperation of man's spiritual, moral, intel-lectual, and practical powers, was a invorte one with Dr. Arnold—a thought which influenced his private career, was effective in making the Rugby school what it became, and left its mark upon his broader speculations. He wished to make religion a life, and life a religion. In 1835 he accepted a fellowship in the senate of the new London university; and having convinced himself that an acquaintance with the Scriptures was indispensable to the students; and that an examination in the New Testament might be prescribed without injury to the broad Christian character of the university, he proposed and carried a resolution: That, as a general rule, the candidates for the degree of bachelor of arts shall pass an exami-nation, either in one of the 4 Gospels, or the Acts of the Apostles, in the original Greek, and also in Scripture history." When at a larger meeting, in Feb. 1838, the senate of the university of London rescinded this resolution, and substituted for it the resolve: "That an examination in the text of the Old and New Testaments be instituted, but at the same time be made voluntary with the candidates." Dr. Arnold, not considering such voluntary examination not considering such voluntary examination satisfactory, withdrew from the senate of the university.—For several years he had been also university.—For several years he had been also much interested in the condition of the working classes; he delivered lectures before the Rugby Mechanics' institute, started a periodical in 1831 called the "Englishman's Register," of which only a few numbers were published, and wrote letters for the "Sheffield Courant," and the "Herts Beformer." Dr. Arnold declined the "Herts Reformer." Dr. Arnold declined accepting any political preferment from the wings, with whom his views were mainly in ayingathy. He loved academic life. And when Lord Melbourne appointed him to the Regius professorahip of modern history at Oxford, he was comed it as the post of all others for himself. But a single year was all that was allowed him. But a single year was all that was allowed him in it. He gave his inaugural address course of introductory lectures, and was laying out plane for wide usefulness, when he was senzed with a violent spasm at the heart, and died in the 47th year of his age. His great work, the "History of Rome," in 8 vols., carried the narrative to the end of the second Punic war; a fourth volume embraced his con-tributions to the "Encyclopastia Metropoli-tana," extending the history to the time of Trajan. We have from him beside, an edition Thucydides with notes, a course of lectures on modern history, 5 volumes of sermons, a volume of miscellaneous writings, and 2 volumes of very interesting correspondence, while he has been a memoir of Dr. Arnold.

ARNOLD, THOMAS KRECHEVER, a clergymen of the English church, and author of several series of text-books for schools, born in 1868, died March 9, 1853. He was educated at Trinity college, Cambridge, and in 1833 published the first of a numerous list of introducting books for the study of the Greek, Latin, Hebrew, German, French, and Italian languages. These works were extensively used in the schools of England, and have been republished in America, and generally introduced into American schools. He next prepared a series of school classics, combining portions of the best Greek and Latin authors; and the fall classical series of Mr. Arnold covers the entire ground from first lessons to accomplished scholarship. In addition to these labors, he was an occasional writer on religious and ecclesiastical questions, and published a volume of sermons. He died suddenly of bronchitis.

occasional writer on religious and ecclesiastical questions, and published a volume of sermon. He died suddenly of bronchitis.

ARNOLD, W. D., a son of Thomas and a brother of Matthew Arnold. He is an officer in the British army, and has written a novel of much promise, called "Oakfield, or Fellowship in the East." Its aim is to represent the trials of a young officer who is determined to act up to Christian principles in a British regiment stationed in India. The work is anto-biographical, in the same indirect way with Dickessis "David Copperfield" and Byron's "Childs Harold."

ARNOLDI, WILHELM, bishop of Treves, bern in 1798; in 1844 produced a great commetica in Germany by reviving the obsolete pilgrimage in connection with the holy coat of Treves. One million and a half of German Catholian made the pilgrimage in obedience to his call, and the scenes of tunult and excitement which the ancient city of Treves presented on this excasion, battle description. The indignation felt by the Protestants was shared by some of the Catholics. Ronge, a liberal Catholic priest, expressed these sentiments in a bold latter addressed to the bishop and published in the Sichrischen Vaterlandsblatters. The excitement which followed in the religious world was even greater than that which prevailed in the streets of Treves. Ronge's latter fell like a bomb-shell into the camp of the bishop, and eventually led to the secession of man church.

ARNOTT, Arcamann, physician, born in 1771, died at Kirkconnell Hall, in Scotland, his patrimonial property, July 6, 1855. He entered the army, on the medical staff, and served in Egypt, Italy, Spain, Portugal, Holland, in Helena, and India,—for the greater part of the time as surgeon of the 20th foot. That sugment was in St. Helena while Napoleon Benaparte resided there, and, in August, 1818, when the illustrious exile required medical sid, Dr. Arnott made an offer of his professional exvices, which Bonaparte then refused to assept. In April, 1831—5 weeks before the closing seems—he was admitted, and appears to have specific

won his patient's confidence and regard by kindness, tact, delicate attentions, and medical skill. When Napoleon was dying, he desired that one of his gold snuff-boxes (the other he bequesthed to Lady Holland) should be brought to him, and, having with his weak hand arratched the initial "N" upon the lid with a braknife, begged Dr. Arnott to accept it in accompledement of his kind services. He also bequeathed him 600 napoleons, to which the British government added £500. Napoleon died, his right hand in that of Dr. Arnott. In 1822 appeared an interesting "Account of the Last Illness, Disease, and Post-mortem Appearance of Napoleon Bonaparte," from Dr. Arnott's pen. His memory was stored with smeedotes and traits of Napoleon, which he residiy poured out in conversation. His opinion of Sir Hudson Lowe, thus expressed, was very unfavorable. In 1826 he retired from active returning to his native place, where his impartiality as a magistrate and his kindness as a landlord combined to make him popular and beloved.

ARNOTT, Nem, a Scotch physician and popular writer upon science, born near Montros, on the east coast of Scotland, in 1788. He was sent in 1797 to the grammar school at Aberdeen, where he took the first prize at the annual examination, and was a successful competitor for a scholarship. Lord Byron was his achoolmate at Aberdeen. In 1801 he went to the university, and, having selected the medical profession, devoted himself particularly to the stady of natural philosophy. He completed his medical education in London, and through the influence of his instructor, Sir Everard Homa, was appointed to the post of surgeon in the naval service of the East India company. The position gave him opportunity for scientific observations in different parts of the world, and he derived from it many of the striking facts with which he illustrated his later works. In 1811 he became a medical practitioner in London, but continued his scientific investigations. He was associated with the most learned strangers who visited London, and in 1815 was made physician to the French and Spanish embassies there. He published in 1827 his "Elements of Physics, or Natural Philosophy, General and Medical, explained in plain or non-technical Language." This contained the substance of lectures which he had previously delivered, and was a most successful attempt to illustrate scientific principles in the language of common life. It was republished in different languages, and passed through 5 editions in England within 6 years. The work contained the result of his studies and practice, and was effectually designed, by revealing the laws of life and explaining according to these laws the newest physical inventions and appliances, to add to the health and convenience of men. In 1837 one of the physicians extraordinary to the

queen, and in 1888 a fellow of the royal society. He published at the same time his "Essay on Warming and Ventilating," in which he showed how much the public health depends upon the right management of the great physical influences, heat and a pure air, and described some prevalent abuses. He continued his researches and publications, and has been the author of numerous contrivances for health and comfort, such as the stove and ventilator to which his name is given, and the water-bed or floating mattress which has often been used with the happiest results. In 1854 he was requested by the president of the general board of health to become one of his council, and received from the royal society their Rumford medal; and in 1855 the jurors of the universal exhibition at Paris awarded him a gold medal, to which the emperor added the cross of the legion of honor. He has since retired from active practice, and is preparing for the press a new and enlarged edition of the "Elements of Physics."

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ARNOULT, MADELINE SOPHIE, a French actress of the last century, was born at Paris, Feb. 14, 1744, in the apartment in which Admiral Coligni had been murdered, more than a century and a half before, and died in 1802. The tragio associations connected with her birthplace seem, however, to have had no influence upon her career, which was brilliant and successful. Her father, an innkeeper, gave her a good education, in addition to which she possessed a charming face and figure, a voice of great flexibility and compass, a warm heart, and an unusual share of wit. Accident alone led to her adoption of a profession for which she was not educated, and the publicity attending which was at first exceedingly distasteful to her parents. Some ladies attached to the court of Louis XV. having heard her sing at evening mass during Passion week, were so struck by her fine voice that they induced the royal chapel master to employ her in the choir. Here she was not long in attracting the attention of Madame de Pompadour, who exclaimed at once that she had the talents to make a princess. Her debut upon the stage at the early age of 18 soon followed, and for 21 years, between 1757 and 1778, she was the reigning favorite at the French opera, taking the chief parts in the works of Rameau, Gluck, and the other prominent composers of the day. Her beauty, vivacity, and generosity, rendered her not less attractive than her voice and fine dramatic powers; and such men as Diderot, D'Alembert, Helvetiua, Mably, Duclos, and Rousseau, sought her society. The most eminent poets celebrated her charms in verse, and, in the exaggerated language of the time, she was compared to Ninon de l'Enclos, to Aspasia, and almost every other beauty of ancient or modern renown. Notwithstanding the severity of her wit, which was frequently exercised, she made no enemies, and exacted from her contemporariés a willing admission of her lyric and dramatic supremacy. Her bons mots, of which many

have been collected, are brilliant and pointed, and her tendency to indulge in them, regardle place or occasion, is forcibly illustrated in last moments, when she exclaimed to the her last moments, when she exclaimed to the priest in attendance, Je suis comms Saints Mudeleine; il me sera beaucoup purdonné, parcs que j'ai beaucoup aimé. At the commencement of the revolution she retired to a country house at Luzarches, which had formerly been the proposition of the country of the deep of which a parsonage, and over the door of which she inscribed the words, *Ite missa est*, where she seems to have passed the rest of her days. One of her sons, a colonel of cuirassiers, was killed at the battle of Wagram.

ARNSBERG, or ARENSBERG, a town of Prussia, duchy of Westphalia, capital of an administrative division of the same name, and once the capital of the whole duchy of West phalia. It is situated on a hill partly encircled and by the Rhine. It is divided into the old and new town, and has a flourishing agricultural school and gymnasium. In the middle ages it was one of the principal scats of the Vehmical and the school and gymnasium. court, which exercised a powerful influence throughout Germany. Pop. 4,000. The prov-ince, the division of Arnsberg, has an area of 2,250 square miles. It was transferred to Prussia from Hesse-Darmstadt in 1813. Pop. 462,082

ARNULPH, bishop of Rochester in the reign of Henry I., was a native of France, born 1040, died in March, 1124. He left the French monaswhere he lived on account of the immorality of his companions, and came to England, where he was successively prior of the monas-tery of Canterbury, abbot of Peterborough, and bishop of Rochester. He wrote, in Latin, a

bishop of Rochester. He wrote, in Latin, a history of the church of Rochester.

AROLSEN, a town of West Germany, capital of the principality of Waldeck, on the Aar. Population, 2,050. It has a fine castle, the residence of the reigning prince, with a large library and valuable paintings, and several manufactories of woollen goods.

AROMA (Gr. apupa, pleasant perfume), the principle in plants or other substances which constitutes their fragrance. In some plants this resides in a volatile oil, but in others the portion containing this principle cannot be detected. It is of an extremely subtle nature, filling the air of rooms, or even the whole atmosphere around gardens; and though constantly imparted, as it may be, for instance, in the case of musk, for so as constantly to fill the air of a wellventilated room, yet never causing to the sub-stance from which it comes any diminution of weight. The aroma of plants is imparted to oils by maceration, but not to water.

AROMATARI, Greskrek, an Italian physician, born at Assisi, in the duchy of Spoleta, in 15%, died in 1600, practised his profession for 50 years in Venice, and achieved such a repu-tation, that James II, of England, the duke of Mantia, and Pope Urban VIII., made him the most tempting offers to enter their service, which he however declined, as he preferred his

independence at Venice. on medical subjects, he wrote an interpaper on the character of Petrarch, his fa poet. One of his most important works is he letter to Bartolomeo Nanti, De Generation plantarum ex seminibus. Its leading ideas es the analogy between the seeds of plants as eggs of animals, were fully adopted and de

oped by Harvey.
AROMATICS. These are substance drugs, or medicines—which emit agree odors, and are usually characterized by a w pungent taste. Such are the spices : cir ginger, pepper, balsams, frankincense, &c. generally contain a peculiar volatile oil, with resinous substances. The animal king furnishes some aromatics, as ambergri civets, and castor. Aromatics are employ the manufacture of perfumery, as condin and as exciting or antispasmodic remed medicine.

AROUAT, or El Arocat, capital of a of the same name in the Sahara, North Africa 800 miles from the sea-coast, lat. 83° 46 K long. 1° 38′ E. It is built on the sides of a hill at the base of which flows the Wady-Msi, ma

at the base of which flows the Wady-Rm, and is surrounded by a rude mud and stone wall.

AROUSTOOK, a county constituting the E. E. extremity of Maine. Area, 4,950 square miles. Population, 12,529. Organized in 1888. Capital, Houlton. The surface is undulating with occasionally a mountain peak, the location of which are Chase's Mount and Mars Hill. Where it has been tilled the soil is good, but the greater part of the country is still clothed with greater part of the country is still clothed the primeval forest. The St. John's river, w forms its northern boundary, is navigable vessels of 50 tons burden. It is also wat vessels of 50 tons burden. It is also watered by the Aroostook, and a number of maker rivers. In 1850 this county produced 19,685 bushels of wheat, 201,687 of oats, 191,541 of potatoes, 17,314 tons of hay, and 184,691 ha of butter. There were 18 lumber establishments, 5 grist mills, 8 asw and planing mills, 18 shingle mills, and 2 tanneries. It contained is that year 8 churches, 2,021 pupils attending public schools, and 129 attending academias of other schools. other schools.

ARPAD, the Magyar national here, a mos who led the Magyars into Hungaished in the latter part of the 9th continued the work of his in 907. He continued the work of he conquered Transylvania, Croatia, and and kept up wars, especially with the ans and Moravians, occasionally estatis of territory on every hand, and suppose expenses of his government by prediccursions against Italy and the Blavos on the west. He was finally defense Moravians in 906, on his return from a ing expedition in Saxony. His histes served in the popular songs and tradhis people, combined naturally with m is fabulous. His dynasty ended with III., in 1301. III., in 1801.

ARPEGGIO, a masical term, literally signi-

herp-like, in the manner of a harp, used sete the striking of the notes of a chord in led succession, in imitation of the harp. PENT, the old French name for acre, still by the French of Lower Canada. At the st day land is measured in France by ares

PINO, GIUSEPPE CESARI D', an Italian at the castle of Arpino, in the of Naples, in 1560, of obscure parents, t Rome in 1640. While employed in a l capacity by some artists who were at in the Vatican, he accidentally discovered aptitude for drawing figures, that ted the attention of Pope Gregory XIII. segme a successful painter. His pictures seame a successful painter. His pictures great facility and invention, correct drawad an apparent grandeur of style, but are
seame time artificial, and lack the simy and dignity of the old masters. He enthe patronage of Pope Clement VIII., the afal academy at Rome. His character is figured by selfish traits and envy of his er artists, whose works he studiously de-

QUA, or ABQUATO, a village of northern 12 miles S. W. of Padua. It is famous as e of the house and tomb of Petrarch. ad here at his villa in July, 1874, and was a sercophagus of red marble, raised on 4 on an elevated base.

QUEBUSE, sometimes, but incorrectly harquebuse, from the French arquebuse but incorrectly, cerupted in English, particularly ah borders, into hagbut, or hackbut—the form of the musket, which became re-erviceable in the field for military pur-

So long ago as the battle of Bosworth, 1485, it was introduced under the name and-gun, which was nothing more than a iron cylinder closed with a quasi-breech end, and provided with a touch-hole, ed to the end of a stout wooden pole, like andle of a spear or halberd. This handministure cannon was loaded with slugs all bullets upon a charge of coarse powad was discharged by means of a match d to the vent, the instrument being supl on the shoulder of the front rank man ras a pikeman or halberdier, and directed ans of the handle, and fired, though of without any aim, by the rear rank. Even than this, at the battle of Agincourt, acto Hall's chronicle, the Britons were with fiery hand-guns." So clumsy, er, and slow of operation were these anfirearms, that, in spite of their formidable and unaccustomed appearance, they proatthough during its earlier years, the of Pavia was won by the fire of the h arquebusiers, the longbow still held a as the superior weapon, in virtue of its sey of aim, its range, and penetration;

and even in the reign of Elizabeth, the long-bow is spoken of as "the queen of weapons," although she had musketeers in her army, and assisted Henry IV., of France, with a body of horse arquebusiers, commanded by Col. James, an ancestor of the well-known novelist. During her reign, this arm was greatly improved, al-though it was still so long and cumbersome that it could only be fired from a forked rest planted in the earth before the marksman, that indispensable instrument being sometimes furnished with a pike or halberd-head, so as, when set obliquely in the ground, to serve as a palisade. The barrels of these old pieces are extremely long, of very thick metal, usually small-bored, and sometimes, already, rifled; as is the case with the piece still preserved at Hamilton palace, in Scotland, with which the regent Murray was shot by Hamilton of Bothwellhaugh, in the year 1570. They were fired by means of a coil of match, or wick, of prepared hemp, passed through a hammer, like that of a modern firelock, which, being released by the pulling of the trigger, threw down the lighted match into the pan, and discharged the piece. match into the pan, and discharged the piece. In due time the matchlock gave way to the wheel-lock, in which the flint was fixed so as to be stationary, over the pan, and a toothed wheel, by means of a spring, was set in rapid motion against its edge, so as to project a shower of sparks into the powder below. To the wheel-lock succeeded the snaphance, as it was called. This was the first uncouth rudiment of the flint and steel lock which was brought called. This was the first uncouth rudiment of the flint and steel lock, which was brought to such perfection by Joseph Manton, and which has only, within a few years, been entirely superseded by the percussion cap, than which it is not easy to imagine a quicker and more infallible instrument of ignition. The snaphance came into use for fine pistols, fowling prices and choice respectively. ing-pieces, and choice musquetoons, during the English civil wars; but their rarity and high price kept them out of general use, except as while the matchlock still continued the wea-pon of the rank and file. It is remarkable that there has been far less advancement than one would have imagined, from the first invention of the improved arquebuse until very recent days, in the mere workmanship of the barrel and the accurate flight of the ball. The difficulty of aiming truly seems to have arisen solely from the defective method of firing, the clumsiness of the piece, and the extreme slowness of the ignition; for many arquebuse barrels of great antiquity, especially those of Spanish manufacture, having been altered to the percussion principle, new-stocked, and properly balanced, are found to shoot with great accuracy and even unusual

penetration, at long ranges.

ARRACK, or RAOK, a spirituous liquor distilled from fermented rice, and also from the sap of the cocoa palm. The word is of oriented and also from the sap of the cocoa palm. tal origin, and no doubt used as a generic term for all distilled liquors, as there are arracks of grapes, berries, and even of wild flowers in various parts of the East. The arrack of commerce is, however, only that distilled from rice, and comes, usually, by way of Holland, from Batavia in the island of Java. When new, it has a strong, oily taste, but when mellowed by age becomes peculiarly rich and agreeable in flavor, and is highly prized as an ingredient in the composition of punch, for which only it is used. ARRAH, a town in Hindostan, capital of the

composition of punch, for which only it is used.

ARRAH, a town in Hindostan, capital of the district of Shahabad, presidency of Bengal, on the route from Dinspore to Ghazepore, 25 miles west of the former, 75 miles east of the latter. It was attacked in July, 1857, during the insursection which then convulsed the British possessions in India, by a body of mutineers from Dinspore, who massacred the European population, without sparing one of the 50 women, men, and children, of whom it was composed. One of the 2 steamers which had been despatched for the relief of the unfortunate town grounded, and the 200 European troops that had been landed from the other steamer fell into an ambush where 9 officers and upward of 100 men were killed.

ARRAIGN, ARRAIGNMENT. Sir Matthew Hale derives these words from the Norman French ad-resener, modern arraisoner, to call to account. They are now used in criminal law practice to denote the act of calling the defendant to the bar of the court to answer the accusation contained in the indictment. Arraignment consists of 3 parts: 1. Calling the defendant to the bar by his name, and commanding him to hold up his right hand; this is done to identify the prisoner from a number of other prisoners who may be at the bar. 2. The reading of the indictment, to let the accused know what he is to be tried for; the clerk of the court, after asying, "A. B., hold up your hand," proceeds, "You stand indicted by the name of A. B., late of &c., for that you, on &c.," and so on to the end of the indictment. 3. After the reading of the indictment is concluded, the clerk adds, "How say you, A. B., are you guilty, or not guilty?" If the answer be "Guilty," the confession is recorded, and the master lies over for judgment; if "Not Guilty," that plea is entered, and the clerk or the attorney-general quietly replies, "He is guilty." Upon this contradiction the issue is made up, and the trial proceeds.

ARRAN. I. NORTH ISLAMD, the largest of the group of islands called the Rassa, lying off the N. W. coast of Ireland. II. SOUTH ISLAMDS, a group of small islands at the mouth of Galway bay, west coast of Ireland. III. A mountainous island in the Frith of Clyde, Scotland, 30 miles long and 10 wide. Its highest summit, Goatfell, is 2,000 feet above the sea.

ARRAN, EARL or, head of the noble family of Hamilton, in Scotland, created dukes of Chatel'heraut by Henry II. of France. The saridom of Arran was originally in the of Boyd; the earl Thomas of which is married to the sister of K. J. and Scotland. This noble, howe

king's disple 4 son; and his w 1 iv was given in marriage to Ja ton, who was created earl of **IVORE** this marriage sprang the celebrate of Hamilton, which claimed to be descent to the Stuarta, and to be successors to the throne of Scotl of failure of the male line. The c marriages of the Scottish kings with the families of their greathe occurrence of many of tilines; all of which, more or less their ended to the crown, and can ficulties and insurrections, co worst of evils to a monarchical co puted succession; the principal of the Darnley Lennoxes, the Hamilton Douglases, all of whom, at a feud to constantly with one another, were bulent and troublesome vassals of In the reign of James IV., the em was sent with an army of 10,000 m state the king of Denmark, uncle tish monarch, in his dominion, from had been ejected; and fulfilling his e with great distinction, returned tri to his own country. After the deati to his own country. After the dec IV. at Flodden, and the coronatic fant king James V., and the appoint duke of Albany to be regent, Arr stantly in a state of insubordination dience to the existing government itself in a most unsettled state; itself in a most unsettled sta Arran, and at another the que garet of England, who had ma Angus as her second husband, he of state. At length matters pitch of animosity amongst the bles, that the earls of Lennox ing up arms, fought a pitched battle of their vassals near the town of Li which Lennoz was alain; this eve a deadly fend betwe which produced the most detrimental to the kingdom of Scotland, and to ccesive queens who governed that is country. After the death of

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ment until she attained her majority, resigned his office to the queen mother, whom Mary appointed her regent, during her absence in Prance, receiving in compensation for his sacrifice the gift of the dukedom of Chatel'heraut, under the great seal of France, and the analysis of the dukedom der the great seal of France, and the ap-instment of his son to the captaincy of the cottish archer guard in France.—After the cath of Francis II. and the early widowhood of Mary, earnest endeavors were made to bring ut a marriage between her and this young lerd, who, on the elevation of his father to the reak of duke of Chatel'heraut, had succeeded to the title of the earldom of Arran; and it urs that strong hopes of succeeding in his it were held out to him by the king of Navarre, and other persons in her confidence. It is not shown that Mary had ever the alightest inclination to this young man, although he was handsome, accomplished, full of talent, and educated in all the graces and refinements of the court of France; he, however, contracted a hopeless and despairing passion for her, which, when it failed wholly of success, turned into absolute madness, so that he was for a time a confirmed lunstic. Shortly after the comnencement of his frenzy, he was prevailed non by Bothwell and his father, to enter into a plot for the seizure of the queen's person, her imprisonment at Dumbarton, and the murder of her ministers; but in a lucid interval he beimprisonment at Dumbarton, and the harministers; but in a lucid interval he became aware of the iniquity of the conspiracy, and revealed it to the queen and her council.

How far Arran's revelations were founded on the they were the consequences of his t, how far they were the consequences of his anity, still remains uncertain, but it seems to be indisputable that they had some foundation in fact. Arran, who was clearly insane, was long kept in confinement, not as a prisoner, but as a lunatic. From this time forth, this unfor-

ARRAS, a fortified city of France, capital of the department of Pas-de-Calais, 100 miles N. N. E. from Paris. It is the birthplace of Lebon, Robespierre, and Damiens, It is strongly fortified, and has manufactures of thread, lace, and woollens; pop. 24,321. Two important Roman Catholic councils have been held here, in 1025 and 1490, and in the 15th century two treaties were concluded in Arras. In 1477 Louis XI, besieged the town in person, assaulted it, and drove out all the inhabitants, whom he replaced by people drawn from all parts of France, and named it Franchise.

ARRASTRE, the name of mills used in Spanish countries for grinding gold and silver ores. To some extent they are introduced also among other people. They consist of a circular basin of some hard rock, as granite, in the centre of which stands a strong wooden revolving shaft. Four horizontal arms project from this shaft, to which are attached, by chains, large flat stones. As the shaft revolves, these are dragged round in the basin, crushing the ore washed in from the stamps, or from the other machines, by which it has been broken

into small fragments, and prepared for the arrastre. The fine ore continually flows out with the surplus water, through conduits prepared for it in the upper edge of the basin. Mules are commonly employed to carry the shaft round, two being harnessed together at each end of a long arm, which passes horizontally through the shaft. The mills are also sometimes worked by being geared to the other machinery of large mills, which may be carried by steam or water power. The arrastresare a poor contrivance, accomplishing very little for the power required. They are, however, of simple construction, demand very little attention to keep them in repair, and if well made, are very durable, while the materials they require are always to be easily obtained in the remote regions in which they are generally used.

to be easily obtained in the remote regions in which they are generally used.

ARRE, a river of central Africa, and affluent of the Shari, which flows into Lake Tchad near its junction with the Shari. This river is called the river of Logone, from the town of that name, which lies on its banks. Higher up, Dr. Barth, in 1851-'2, found that it was called Serbenel. The name Arre is given by Dr. Vogel, who came upon it in lat. 9° 50' N., about 10 miles E. of the N. edge of Lake Tubori. This is the appellation under which it goes with the Musgo, who dwell on its banks. When Dr. Vogel saw it, in the beginning of the rainy season of 1854, it was about 2,000 feet broad in lat. 10°, and averaged 15 feet deep. In a few places sand-banks extended across the river, and diminished its depth to 6 or 8 feet. The current ran about 4 miles an hour. From an examination of the banks, Dr. Vogel concluded that in the most favorable time of the year the Arre attained a mean depth of at least 80 feet. See an account and map of Dr. Vogel's excursion to Musgo and Lake Tubori, in Petermann's Mittheilungen, Gotha, 1857.

in Petermann's Mittheilungen, Gotha, 1857.

ARREBOE, Anders, a Danish poet and divine, born upon the Schleswig island Arroe, in 1587, died in 1637. In 1618 he was appointed bishop of Drontheim, but dismissed in 1622. He translated the psalms of David, and as he availed himself of this opportunity to express contrition for the misconduct which to some extent had brought about his dismissal, he was reinstated in his ecclesiastical position, so far, at least, as to be called upon to preside over the church of Vordingborg. His best work is his Hexaëmeron, in imitation of the poem of the French poet Du Bartas, La première semaine, ou la création. The first book of the Hexaëmeron is rhymed hexameters, the other books are composed in Alexandrines.

ARREOY, the name of a licentious society

ARREOY, the name of a licentious society of Otaheite and the neighboring islands, composed of about 1,000 members, of both sexes, mostly persons of high standing, who indulged in promiscuous intercourse, and bound themselves to destroy their own offspring at the moment of birth. Thousands of Otaheitan infants were killed in this manner by their parents. Malthus speaks of this law of infanticide as in-

stituted for the purpose of averting the danger of an excess of population, while theological commentators trace this monstrous crime to some heathenish religious principle. Until the beginning of this century, this society was, according to Cook and other travellers, in a flourishing condition. Those who did not submit to the law of infanticide were expelled from the society, while to tender-hearted women who spared the lives of their offspring, the appellation of whannounous (bearer of children) was derisively applied. The children were generally killed by suffocation.

ARREST, the apprehending of one's person by authority of law, whether in execution of legal process, or by natural right. It does not legal process, or by natural right. It does not legal process, or by natural right.

imply an actual seizure or touch of the body it is enough for the party to be within the officer's power and to submit thereto. In the case of a felony, private persons may apprehend a party caught in the act or upon fresh pursuit, while officers are justified in making the arrest, without a warrant, upon reasonable suspicion. In the case of a misdemeanor, such as an ordi-nary breach of the peace, if it be committed within an officer's view he may make the arrest, otherwise not without a warrant; but private persons have no authority so to do, unless spe-cially authorized by statute. In civil cases an officer only can act, and his authority is limited by the process which he is empowered to execute and to the district within which it runs. The maxim that every man's house is his castle holds good as against the law in civil cases alone, the officer not being justified in break-ing open an outside door or window to arrest the occupier or his family in the first instance, unless in cases authorized by statute; though he may do so after an escape, or to apprehend one not of the household, after due demand and notice, and may make his way through any inside door, if the outside be open. To obstruct rocess and to refuse to aid in its execution are adictable offences. Public ministers abroad, indictable offences. members of the legislature, and persons neces-sarily in attendance on a court of record, are privileged from arrest, either altogether or for

the less serious causes.

ARRHID.EUS, Phillip, a natural son of Philip of Macedon and the dancing girl Philipma of Larissa, died 815 B.C. After the death of Alexander the Great had left all things in confusion, the Macedonian troops in the East nominated Arrhideeus king, with the proviso that the child with which Alexander's wife was pregnant should be associated with him in the government. The claims of Arrhideeus were strengthened by the fact that his wife, Eurydice, was the grand-daughter of Perdiceas, Philip's elder brother. Being of weak intellect, he was a mere pupper in the hand of Perdiceas. On the death of Perdiceas, Arrhideeus and Eurydice were in Cappadocia, where Antipater, the regent of Macedonia, found them and took them over with him to Pella, in Macedonia, After the death of Antipater, the regent Polysperchon and the

dowager grandmother, Olympias, set up by preference to Arrhideus, Alexander, Rozande young son. Arrhideus and his high-spirited wife, Eurydice, protested, called in the aid of Cassander, Antipater's disinherited heir, but falling into the hands of Olympias, were bether cruelly murdered by her orders.

ARRIA, a Roman woman who immortalized herself by suicide A. D. 42. Her husband, Cecina Pætus, was condemned as a traiser to put an end to his own life, by the emparation of the company o

not hesitate and despatched himself at c ARRIAN, FLAVIUS, born in Nicome Bithynia, A. D. 100, served under Hadri the Antonines, was prefect of Cappadocia, successfully there against the Goths as successfully there against the Alani; after which, retiring from publi he devoted himself to letters. Being a Being a and friend of the great Stoic, Epicter published the moral teachings of his wrote his dialogues, of which only 4 book wrote his dialogues, of which only 4 books reached us, known as Philosophias Bpi Monumenta. He also published works history, geography, tactics, and hunting, best of them is his history of the camp of Alexander the Great, written with critical judgment, accuracy, and impart This has secured to Arrian the first place at the historians of Alexander. The Achie the historians of Alexander. The At created him a citizen of Athens under name of Xenophon, his book being lil called "Anabasia," With this work his Inc. closely connected, in which he describe Hindoos, their institutions and custon they were found by Alexander. He wrote a history of Bithynia, a work on the cumnavigation of the Black see, to make War with the Alani, and smaller works, in all of which he is see, b headed cautious in the selection thorities, and easy and unaffected in styl ARRIAZA Y SUPERVIELA, Juan I

ARRIAZA Y SUPERVIELA, Juan Barrata Dr. a Spanish poet, born at Madrid in 1770, and died there in 1837. He was in early life connected with the Spanish navy, but a serious illness injured his eyes so much that he was obliged to relinquish his office. Subsequently he was for some time attached, as surretary, to the Spanish embassy at London. In 1805 he took up his abode in Paris for 3 years, when, on his return to Spain, be took an antivepart in politics, published his Pessies Pustwist of rousing the national spirit. In the house pamphlet he attacks the Cortes of 1818 and the constitution, and advocates the principles of absolute monarchy. In schnowledgment of the service Ferdinand VII. gradually relied him to an important position in the department of the edge of chamberlain. A (n of his posted)

the starch of the maranta arundinacea,

to appeared at Madrid in 1829-'82, and was inted at Paris in 1884 and 1841.

RRIGHI DI OASANOVA, JEAN-TOUS-

ERIGHI DI CASANOVA, JEAN-Tousg, duke of Padua, a French general, related to
comparte family, born at Corte, in Corsica,
70, died March, 1853. He entered the army
s age of 15, and took an active part in the
tian campaigns, in the battles of Marengo,
sritz, Friedland, Wagram, and Leipsic, and
tmowledgment of his gallantry and his devoto the interests of Napoleon, he was raised
dignity of duke of Padua, with an income
0,000 francs, soon after the battle of FriedDuring the battle of Leipsic he office
of the suburbs. On Napoleon's return
Elba he sent Arrighi on an important misto Corsica, and raised him to the rank of

to Corsica, and raised him to the rank of of France. After Napoleon's downfall he maished from France, but permission to rewas granted to him in 1820, of which, howhed did not avail himself, as he continued of France. mide in Italy, until 1849, when he was nom-id member of the legislative assembly by mative district in Corsica, and after that he took up his abode in Paris. After some d'état of Dec. 2, 1850, Louis Napo-

made him one of the members of his sen-Arrighi was appointed testamentary ex-er of the father of the present emperor, a Napoleon.

ERIS, the sharp edge or angle formed by those meeting each other, applied particu-to the edges in mouldings, and to the rais-less which separate the flutings in a Doric

RROBA, a Spanish measure of weight and city. The standard great arroba for wine il cu. in.; the lesser, for oil, is 771 cu. in. ish arroba, 25.36 lbs. av.; Portuguese, 32.38 The local arrobas vary between these

In capacity the Spanish great arroba is gallons; lesser arroba, 2.78 gallons. There less local variations from this to the extent

early one-third.

REOE (or HARNISH) ISLANDS, a group of Il islands in the Red sea, about 30 miles N. of Macha

of Mocha.

RROO, Aroo, or Arru, a group of islands h of Australia, lying between lat. 5° 20′ 6° 25′ S., and long. 134° 10′ and 134° E. At the end of them is a considerreef of coral, where pearls and trepang nd. The products are pearls, motherward, tortoise-shell, birds of Paradise, and mg. Dobbo, a town in the island of nd, is the entrepot of the islands, and imagery British goods—calicoes, iron, hardyearly British goods—calicoes, iron, hard, and gunpowder, shipped from Singapore—e amount of \$150,000. Pop. 60,000, a ure of the Malay and Polynesian negroes, hich a portion profess Christianity.

RBOWROOT, a name loosely applied to tarch extracted from a number of roots grains, as the maranta, manihot, tacca, a, potato, &c. It was originally limited to

which grows in the East and West Indies, and which was considered a specific for the wounds which was considered a specific for the wounds caused by poisoned arrows. It is a simple food, in high repute for invalids. Not containing nitrogen, it is well adapted for producing fat and promoting the warmth of the body. According to Liebig 4 pounds of it contain as much carbon for supplying animal heat by its combustion as 15 pounds of animal flesh. In its preparation tubers are mashed, and the pulp soaked in ter. This dissolves out the starch, which is separated from the fibre by straining. After settling, the clear water is drawn off, the starch is washed with fresh water, and again allowed to settle. It is finally dried in the sun. From the false arrowroots, and from the mixtures of the different kinds, the genuine maranta arrow-root can be distinguished by the use of powerful microscopes. The different forms of the little granules are very characteristic when thus observed. The most common adulterations are with the cheap potato starch, sago, and mani-hot, or tapioca. The granules of the potato are of very irregular, ovoid, and truncated forms, and of various sizes, from $\frac{1}{160}$ to $\frac{1}{2000}$ of an inch in diameter, while the particles of the arrowroot are very regular ovoid forms, and of nearly equal sizes. Dilute nitric acid is also a good test. When triturated with it in a mortar, arrowroot changes into an opaque paste, which is some time in becoming viscid. But potato and flour starch thus treated form immediately a transparent, thick paste. From the inferior starches alcohol extracts an unwholesome oil of the paste disagreeable odor, but none from arrowroot. The composition of the fresh root was ascertained by Benzon to be as follows: volatile oil, o.07; starch, 26; vegetable albumen, 1.58; a gummy extract, 0.6; chloride of calcium, 0.25; insoluble fibrine, 6; and water, 65.5, in 100 parts. Of the starch 28 parts are obtained in the form of powder, and the other 3 are extracted in the form of posts. ed in the form of pasts from the parenchyma with boiling water. The great variety of sources from which the different arrowroots are obtained—from different countries and different varieties of plants—renders it important that the name should be applied with more def-initeness for the protection of the public in this article of food. Thus we have a so-called arrowroot brought from Florida, derived from a plant allied to the sago-palm. This plant seems peculiarly adapted to certain portions of south-ern Florida. On the borders of an immense basin termed the everglades, is a strip of land averaging some 15 miles in width, barren in soil, and covered with dwarf pines. Upon this soil, and covered with dwart pines. Upon this miserable tract of country grows, in the greatest profusion, the coontee, or Florida arrowroot, which, though of an inferior quality, containing only 12 per ct. of starch, gives a high value to a region, which would otherwise be entirely worthless. The expense of digging and preparing the root is very trifling, and there is no difficulty in propagating it, as wherever a small piece is left in the ground there will appear a

new plant.

ARROWSMITH, AARON, an English geographer and map-maker, born in Winston, Durham, July 14, 1750, died April 23, 1828. He went to London in 1770; in 1790 he published his large map of the world on Mercator's projection, containing a great amount of new mat-ter, which soon brought him into general notice. He published, altogether, more than 130 maps, which were highly esteemed throughout Europe, particularly for the excellence of the engraving

ARSACES, the founder of the great Parthian monarchy, which was later the most effectual barrier to the further progress of the Roman arms and empire in the far East. Justin speaks of him as "of doubtful origin, and used to live by In the reign of Antiochus Theos, of robbery. Syria, 250 B. C., Arsaces led the revolt of the Parthians, and declared himself their independent king, a position which he successfully maintained. Out of respect for his memory, his successors called themselves Arsacidae.

ARSENAL (Lat. arx navalia, a naval citadel), a public establishment designed for the manufacture and storage of arms, and all mili-tary equipments, whether for land or naval service. The arsenals of Europe are immense enclosures, containing stores of military engines and pieces of artillery arranged in order and classes, halls in which magazines of musketry cases, hars in which magazines of muskerry are kept, adjacent buildings furnished with founderies and forges, numerous smaller work-shops, and offices or bureaus for the superin-tendents of the establishment. The principal areata of England, after the tower of London, is that of Woolwich, remarkable for its size, and in which 100,000 muskets are arranged in admirable order. The other great English arsettals are those of Deptioni, Chatham, Sheerness, Portsmouth, and Plymouth. France has a sensite of the fire of the fire. 8 arsenals of the first class, those of Brest, Teal on, and Rochefort. There was formerly an arsenal at Paris, which was destroyed in 1565 by the accidental firing of 15 or 20 tons of powder which its several buildings contained. The terrific explosion was heard at Meiun, 28 miles distant, and sent portions of the walls of the arsenal into the suburb of St. Marceau. The fishes were killed in the river, the neighboring houses were rained, and 30 persons thrown into the air tell in fragments. The principal arsenals in Spain are at Cadiz, Carthagena. U persons The prin-Barcelona, and tribraltar, the last belonging to Barceotta, and Ciferatar, the last belonging to the English; the principal in Italy are at Genoa Naples, Veince, and Trieste; in Denmark, at Copenhager, in Sweden, at Cariserona; in Russia, at St. Petersburg, Cronstadt, and Kov; in Turkey, at Constantinople; in Egypt, at Alexan-dria; in Brazil, at Ro Janeiro; in Germany, at Prague, Vienna, Budweis, and Berlin. and Hamourg were made maritime arsenals by Najs lear, but have again become trading ports. The arsenal of Venice was built in the 14th century by Andrea Pisano, and has its principal

gate adorned with 2 white marble lions, whise were taken by the Venetians from the Piras of Athens. In the United States of America the term arsenal is applied particularly places for the storage of arms and munitions. war, and places for their manufacture are armories. In this sense the principal armore are at New York, Boston, and Baltimora at the only public armories at Harper's Ferry, Va and Springfield, Mass. Each of the two arms ries employs about 250 workmen.
ARSENIC (Gr. apprensor, masculine, so

ed from its masculine power in destroylemen). The name is now in common use a plied to the white oxide of arsenic, or area acid. In ancient times it was a reddish col mineral compound of arsenic and sulpi which this name was given—a substance in the then as a medicine, and also in painting Metallic arsenic occurs native in veil crystallized rocks and older slates, and it is a ~ ds prepared by subliming its oxide in reducing flux, and protected from the air. I modern chemists do not regard it as a m though it is commonly treated as such bined with oxygen, it unites with metals, \$ arsenites and arseniates of these metals, is never itself the base of any sait. The orm of never itself the base of any salt. The or metal are not therefore carbonates and s of its oxide, as is common with other metal, it they are combinations of the metal itself wis sulphur, forming the sulphuret, and this con bined with iron cobalt, or nickel; or they oxides of the metal; or else compounds of oxides with other metals as above meating It is remarkable as the most volatile, as of the most combustible of the metals. readily sublimed at a temperature of 3 apparently before it melts. At a greate apparently before it melts. At a gre it takes fire, and burns with a pale, b In subliming, it gives out dense fun culiar garlicky odor, that distinguish it from substances, even when present in very a quantity. It is more brittle than antimo much so, that it may be reduced to fine p in a mortar. Freshly prepared, it has a brillis metallic appearance, a bluish white color, a crystalline structure, but these properties a not permanent in the air. The metal becomb lack in this, and crumbles to powder. In was it may be kept without change. Its gravity is 5.96. It is the softest of the metals, its hardness being rated on the eralogical scale at 8.5. Arsenic readily bines as an alloy with other metals, them more fusible and brittle. Its p them more fusible and brittle. Its particularly injurious in iron orea, a cast metal exceedingly brittle, britt It is not e

ARSENIC 161

sablineate, which escapes when arsenic is heated in the open air. The metal combines in the proportion of 1 equivalent with 3 of oxygen, the proportion of 1 equivalent with 3 of oxygen, the compound consisting of arsenic 75.76 per cent.

and oxygen 24.24 per cent. The sublimate, after exposure, is a white powder, but may be collected in the form of a glassy, transparent cake, or crystallized in octohedrons. It is partially soluble in boiling water, and less so in cold water. The solution is slightly acid, have the proportion upon litture province. g but a feeble reaction upon litmus paper. The following are some of the most important tests given for detecting the presence of this poisen: The blow-pipe develops its peculiar odor, with little liability of mistake, in arsenical matters, heated on charcoal. It also reduces the metal, and causes it to condense in the form of a metallic ring in the cold part of a glass tube, in which the substance containing arsenious acid has been placed with carbonate of soda and charcoal, and heated. The presence of arsenic may be shown by this method, when the parti-cle containing it is so small as to be invisible to the naked eye, as in the following manner, communicated by Prof. A. K. Eaton, of New York: The microscopic particle is placed in a bulb of a small glass tube, and a fine splinter of charcoal is placed by the side of it. The whole should then be thoroughly dried. The neck of the bulb is next to be drawn out to a capillary tabe, and cooled. On applying heat to the matter in the bulb, this produces, by sublimation, a plainly visible arsenical ring in the fine bore of the tube.—The acid is precipitated from its solutions by sulphuretted hydrogen in the form of tersulphuret of arsenic of a lemon-yellow color. This is a very accurate test, and is so delicate that the yellow tint is apparent when only a ten-thousandth of the acid is when only a ten-thousandth of the acid is present, and the precipitate when the arsenious acid is in the proportion of 1 part to 80,000 of water. It is precipitated in a white powder by excess of time-water, when forming one fivehundredth part of the liquid. Ammonio-sulphate of copper gives an apple-green precipi-tate, apparent when the acid forms one twelvethousandth part. A still more delicate test is that of Prof. Reinsch, to place a slip of bright copper-less in the aqueous solution acidula-ted with hydrochloric acid. A gray film of arsenic is deposited upon the copper, showing the presence of less than one hundred-thoueven a two hundred and fifty-thousandth part of arsenic will not escape detection by this test. Nitrate of silver gives with it a yellow precipitate.—It should be borne in mind, in attempting to determine the presence or absence of arsenious seid in any mixture in which or of arsenious acid in any mixture in which organic substances, particularly those which are not volatile, are present, that some of these substances often produce very similar reactions, and, on the other hand, that they prevent or modify those which arsenious acid should produce in mixtures where no organic substances are present.—" Marsh's apparatus" has been

long known as affording an easy means of detecting the presence of arsenious acid. The pro-cess depends on the property possessed by ar-senic of forming a gas with hydrogen, and de-positing itself, in the metallic state, upon the positing itself, in the metallic state, upon the surface of a cold plate, held over the flame of the burning gas. Hydrogen is prepared in the usual way, with granulated zine and diluted sulphuric acid, in a glass flask provided with a tube of glass drawn out to a small orifice at its outer end; or a mere tube itself may be used, beart in the form of the letter H are and drawn. bent in the form of the letter U, one end drawn out, the other left open for introducing the materials, and closed with the thumb when in use. The hydrogen evolved should first be tested by burning it against a porcelain plate to prove that it is free from arsenic, and then the sus-pected liquid is to be introduced into the apparatus. If it contain any traces of arsenious acid, it will be shown by the bluish white color the flame will assume, by the fumes of the acid, and brown will assume, by the fumes of the acid, and brown shining spots of arsenic of metallic appearance will be deposited upon the porcelain plates. By heating the glass tube with a spirit-lamp, metallic arsenic will be deposited in the colder part of it, forming a beautiful incrustation. The tube may be cut off at this point, the arsenic be converted into arsenious acid by heat, dissolved in bot water and tested by the arm. dissolved in hot water, and tested by the ammonio-sulphate of copper and nitrate of silver. This apparatus has been modified by Dr. Ure, so that the gas may be made at will to pass through the solutions, by which the arsenic is precipitated, or to deposit the metallic incrustation in the tube, or the spots upon the plate. In its most simple form, however, it is a very useful contrivance for detecting arrenic. useful contrivance for detecting arsenic. Antimony combined with hydrogen produces a spot that may be confounded with that of arsenic. But a solution of hypochlorite of soda instantly dissolves arsenical spots, and has no effect upon those of antimony. The arsenical spots also are volatilized at a temperature of 500° applied by a bath of olive oil, while the antimonial are unchanged. The proper solvent for organic matters supposed to contain arsenic is a mixture of ters supposed to contain arsenic is a mixture of 8 parts of hydrochloric and 1 part of nitric acid, and the quantity of this should be equal in weight to the organic substance, which, before being dissolved, should be cut into small pieces and dried at a gentle heat. The mixture being distilled the arrenic if present corpus over in distilled, the arsenic, if present, comes over in the form of the volatile terchloride, which is then to be converted into the tersulphuthen to be converted into the tersulphuret by sulphuretted hydrogen.—Arsenious acid is manufactured on a large scale at Altenburg, and Reichenstein, in Silesia, from the ore called arsenical iron. In many other places it is obtained as a secondary product in the treatment of cobalt ores, and of other me-tallic ores with which arsenic is associated. The process consists in roasting the ore in large muf-fles, 10 ft. long and 6 ft. wide, in charges of 9 or 10 cwt. each, and collecting the vapors, as or 10 cwt. each, and collecting the vapors, as a sublimate, upon the walls of a succession of chambers, arranged in a tower through which

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they pass, and from which the incondensable gases escape by a chimney. The muffles are placed inclining upward from their mouth, and are left open for the passage of heated air to aid in subliming the arsenic and converting it all into arsenious acid. A charge is worked off in about 12 hours, and is immediately followed by another. Charcoal is the fuel used, as very little more heat is required than what is evolved by the chemical changes. The quantity consumed is very small. The purest arsenic is found in the flues and chambers nearest the furnace; in the upper chambers it is intermixed with the condensed sulphurous vapors. To purify it for market it is all sublimed again. It is placed in east iron or porcelain pots, which hold 34 cwt, each, and these are set vertically in a furnace. They open above into sheet-iron drums, which serve as condensers, and which are connected by a funnel with the condensing The fire must be carefully regulated chamber. chamber. The fire must be carefully regulated to maintain the proper temperature for the acid to sublime in the form of a glassy cake. If the heat is too high, metallic arsenic is apt to be sublimed and mixed with the acid appearing in dark spots. This must be picked out, or the whole sublimed over. The preparation of the whole sublimed over. The preparation of arsenious acid is a most dangerous occupation. The workmen employed generally die before the age of 40; indeed, their mean term of life is stated to be only from 30 to 55 years. Dumas states that they are compelled to avoid alcoholic drinks, and live principally upon leguminous vegetables, with plenty of butter, taking very little meat, and that very fat; and to each man 2 small glasses of olive oil are administered dai-In removing the soid from the chambers the workmen are completely enveloped in a dress and helmet of leather, the latter furnished The passage for the air is prowith glass eyes. tected with a wet sponse, by which it is filtered as it passes to the mouth and nostrils.—Arsenious acid is also found native, crystallized in octohedrons and capillary forms, at Andreasberg, in the Harz, and at mine - in Hungary and Bohemia. Combined with iron and sulphur it forms the common ore of arsenic, called arsenical iron, or mispickel, which is of frequent occurrence in veins of iron pyrites, and of copper, lead, silver, zinc, cobalt, nickel, and tin ores. This ore is found in many localities in Connecticut and New Hampshire particularly, but is not rare in any of the New England states, or wherever pyritous ores are found along the range of the primany rocks of the Appalachian chain. The neid is also found in the assess of many plants; in certain soils and mineral waters; and Orfila has detected it in the earth of graveyards. Its diffusion mannute quantities is very remarkable. The uses of arsenious acid are principally in medicinal preparations, such as Fowler's solution, the basis of which is the arsende of potashic it is also administered, without combination with other substances, as a tonic. It acts powerfully in doses of $q_1^{i_1}$ to $q_2^{i_2}$ of a grain, warning and ex-hiarating the system, and increasing its activity

and vigor. It is stated that in some parts of the world, as in the mountainous region of Hangary, it is systematically taken by the peasantry, both fasting and as a seasoning with their food. But this statement of Dr. Tschudi, in a letter to the Gazette des Hopitaux, which, with many wonderful details, has been copied into a great number of publications, is not worthy of credit. The impression among medical men is that from 2 to 3 grains of arsenic is a fatal desc, the collarger doses are sometimes rejected from the stomach by vomiting. The system, moreover, becomes more and more susceptible to mizeral poisons; so that a smaller dose after a time preduces the effects that a large one would at 25%. Johnston, however, in his "Chemistry of Common Life," inclines to the opinion that a common Life. may be found to lessen the natural waste of the body and the discharge of carbonic acid from the lungs, and consequently the quantities of oxygen required. Breathing will hence be less difficult in ascending hills, and the fat of the ford will not pass off in carbonic acid gas, but go to a crease the plumpness of the individual. The opinions are probably based on the statements of Dr. Tschudi. In desperate cases of these fever arsenic is resorted to as a tent take powerful than quinine. By Dr. Tschudi it is been given with success in asthma. It is admitted to the powerful than quinion of the powerful than quinine. ministered to horses to increase their spirit and improve their coat. It is tied in a rag to the bit, and is dissolved by the saliva. The horse likes it, and is very possibly improved in condition by its use; but when the habit of taking it is left off he falls away, and never afterward; as health or strength. In the western States A appears from recent accounts that it is all an tageously administered to hops that are troubled with attacks of the kidney worm, and that it is the only medicine that saves them when that attacked. Whether the large doses given for this purpose has any effect upon the pork, is not stated. The acid is also employed in the glass manufacture to destroy the coor imparted by the protoxide of iron, and by taxidermists in preserving specimens of natural las tory and skins from insects and putrefacts of It is lately proposed to introduce it into the iron employed in ship-building, for the partons of preventing the attachment of barnacies, and other animal matters to the bottoms of ships. This is done by mixing it with the iron in the p dling furnace, in proportions varying from 2 to 5 per cent.; it is thus diffused equally through the whole mass of iron, and its effect continues till the metal is worn out.—Antidotes. When are ious acid has been taken in poisonous dues, an emetic should be immediately administered, of the stomach pump at once applied. This is to be followed by doses of freshly precipitated preoxide of iron, or of caustic magnesia mixed with water. The peroxide of iron may be prepared by dissolving copperas in hot water, or pieces of metallic iron, as tacks, in nitric acid. To the copperas solution nitric acid should be ad-till the solution becomes yellow, heat being

plied at each addition of acid. The peroxide of iron is precipitated from this solution by ammais, either the aqueous solution or the car-benate. The precipitate, filtered through pa-per, should be washed with boiling hot water; it is then mixed with water, and drank. The effect of the peroxide of iron in neutralizing the action of arsenious and arsenic acids is seen in the harmless nature of the chalybeate waters of Wattviller, in which arsenic was found by Lassaigne to be present to the amount of 2.8 per cent.—Arsenics. Arsenious acid unites with per cent.ses, and forms arsenites. Those of any interest are arsenite of potassa, which has been already referred to; Scheele's green, and Schweinforth's green. These are beautiful green-the-colored powders, used as pigments. They are appointed of control of vortex already. sar-colored powders, used as pigments. They are arsenites of copper, of very poisonous qualities; yet it is stated that they are sometimes made use of to color confectionery. The bright green colors of some paper-hangings are also produced by these combinations, and instances are recorded of their use being attended with are recorded of their use being attended with dangerous consequences to the occupants of the rooms.—Arsenic acid is a deliquescent vitreous substance, of specific gravity 3.4 to 3.7. It consists of 1 equivalent of arsenic and 5 of oxygen, 65.22 parts by weight of the former, and 34.78 of the latter. It is soluble with great difficulty, and after long digestion in hot water. The solution possesses acid properties. The compound is a more virulent poison than arseniates. These possess no particular importants. nious acid. Its combinations with bases are arseniates. These possess no particular importance. It is prepared by dissolving metallic arrest acid evaporating to dryness, senic in nitric acid, evaporating to dryness, dissolving up any arsenious acid, and again evaporating. The combination of arsenic and evaporating. The combination of arsente and hydrogen gas has been alluded to in speaking of Marsh's apparatus. This gas is generally known as arseniuretted hydrogen, and also arseniohydric acid. Realgar, or red orpiment, is a native combination of arsente and sulphur, found in Germany, Hungary, and other places. It is also artificially prepared for a pigment, being of a beautiful orange-red color. In fire-works it a beautiful orange-red color. In figives a very brilliant white flame. It consists of 1 equivalent of arsenic and 2 of sulphur. Yellow orpiment contains one more equivalent of sulphur. This is also found native, and is prepared sulphur. This is also found native, and is prepared artificially. It is the basis of the pigment called king's yellow. It is used for dissolving indigo, and also in calico printing. The

king's yellow. It is used for dissolving indigo, in the cold vat, and also in calico printing. The name, orpiment, is a corruption of its Latin name, auri pigmentum, golden paint, so named because of its color, and because it was supposed to contain gold.

ARSENIUS. I. A deacon of the Roman church, renowned for his learning and piety. Pope Damasus sent him to Constantinople A. D. 383, to act as tutor to Arcadius, son of the emperor Theodosius. The emperor one day finding Arsenius instructing his son in a standing posture, while the prince remained seated, corrected him with severity, but with so little effect, that Arcadius soon after at-

tempted to make way with him. The officer whom he wished to employ for the purpose warned Arsenius of his danger, who fled to the desert of Scete, where he lived many years. He died at Troe, aged 95. II. A Greek writer, at the close of the 15th century, who died at Venice in 1485. He abandoned the Greek for the Latin church, and was made archbishop of Malvasia, in the Morea, by Paul III. He published a collection of Apophthegms of great men, in Greek, and Scholia on 7 of the plays of Euripides. III. Bishop of Constantinople in the 13th century. He excommunicated in the 13th century. He excommunicated Michael Palæologus for depriving John Lasca-

ris of the crown, and upon his refusal to grant him absolution, unless he would resign the throne, he was banished, and died in exile.

ARSINOE, a city of Egypt, and the metropolis of one of the nomes or districts into which that country was anciently divided. It lay west of the Nile and not for from Lake Moris. that country was anciently divided. It lay west of the Nile, and not far from Lake Moeris. Ptolemy Philadelphus gave it that name in honor of his favorite queen Arsinoë. Originalhonor of his favorite queen Arsinoë. Originally, however, it was called Crocodilopolis ("the city of crocodiles") by the Greeks, because that animal had a temple there, in which he received divine honors from the Egyptians, and because of the number of dead crocodiles which were interred near the city. The city no longer exists, but its ruins may be seen in the vicinity of the modern Medinet el Faioum.—Also, a city of Egypt, which stood at the extremity of the Red sea, near the site of the present town of Suez. Ptolemy Philadelphus considerably enlarged and improved this city, and called it Arsinoë, after his sister and queen. Arsinoë was connected with the Nile by the Ptolemean canal, and was long the great eastern emporium of Egypt. But the dangers incidental to the of Egypt. But the dangers incidental to the navigation of the northern section of the Red sea led in time to the construction of harbors lower down the coast, and to the diversion of trade to new channels.

ARSINOE. I. A concubine of Philip, the son of Amyntas, who became the wife of Lagus, a Macedonian general, and the mother of Ptolemy I., king of Egypt. She was said to have been pregnant at the time of her marriage, and her son Ptolemy was generally regarded as the brother of Alexander. II. A daughter of the brother of Alexander. II. A daughter of Ptolemy I., king of Egypt, was married to Lysimachus, king of Thrace, who had cast off his former wife Amastris, that he might espouse the lovely Egyptian. Arsinoë being determined to secure the Thracian sceptre for her own earned Agatheeles the sen of Amastris. issue, caused Agathocles, the son of Amastris, to be put to death. The consequences of this crime, however, were such as Arsinoë had not crime, however, were such as Arsinoe had not anticipated. Lysandra, the widow of Agathocles, fled to Syria with her fatherless children, and implored Seleucus to avenge the murder of her husband. A war ensued between the Thracian and Syrian monarchs in which Lysimachus lost his crown and life. After this catastrophe Arsinoë sought refuge in Cassandria, a city of Macedonia, where, with her sons by Lysimachus, she remained in security for some time. But Ptolemy Ceraunus having assassinated Seleucus, and seized the crown of Macedonia, became desirous of gaining Cassandria, and getting the heirs of Lysimachus into his power. To effect these objects the more easily, he made an offer of his hand to Arsinoë, who consented to accept it. No sooner, however, did Ceraunus find himself in possession of the city than he caused the helpless offspring of Lysimachus to be slain in the presence of their mother. The disconsolate Arsinoe now fled from Cassandria to Samothrace, whence she proceeded to Egypt, the country of her birth. Here she was kindly received by her brother Ptolemy Philadelphus, the king, who speedily became enamored of her and made her his queen. She had no issue by Philadelphus, IH. A daughter of Ptolemy Energetes, married to her brother Philopator, whom she accompanied to the war against Antiochus. After her return to Alexandria, a courtier named Philamon put her to death by order of the king. But her murder was subsequently avenged by her friends, who kilied Philamon and all his family. This queen hore Ptolemy Epiphanes to Philopator. IV. A daughter of Ptolemy surnamed Auletes, was proclaimed queen by the Alexandrians after her brother Ptolemy Dionysius had become prisoner to Caesar. She subsequently, however, fell into the hands of the conqueror, was carried to Rome, and served to adorn his triumph. Her deportment while passing through that cruel ordeal excited the sympathy of the Roman people, and of Caesar, who presently restored her to therty, and permitted her to return to Egypt. Her end was unfortunate. Antony at the instigation of her sister Cleopatra, had her taken from the temple of Diana at Miletus, whither she had thed for refuge, and barbarously murdered.

ARSON, in criminal law, the malicious and wilful burning of the house of another. To constitute the offence 3 things must concur: 1. There must be an actual consumption by fire of the whole or part of the house (which comprehends not only the dwelling but outhouses appurtenant thereto); the slightest charring, but not the scorching of the wood, is enough.

2. The house barned must be another's: for a man to barn down his own is not arson, though if in so doing he set fire to his neighbor's, it is the same as if that had been fired in the first instance, since a man has no right to use his own property to the injury of another's, and is presumed to intend the natural consequences of his acts.

3. The borring must be malicious and with 1; if it result from need-out, or mischance, it is not arson, but trespies. These rules of the common law have, however, been modified more or less by statute, both in England and America. It is made arson to burn other things, each as cornrocks in England, beside houses, and the general and statutory provisions are such as not to make it a necessary ele-

ment of the crime, that the house should belong to another, especially if it be a dwelling-house, in occupation at the time. Most statutes on the subject establish different degrees of arone, according to the enormity of the offence; to each of which proportionate penalties are affixed.—The old writers speak of aron, highway robbery, and ravage (depopulatio agreeous, all of which were denied benefit of clergy at common law. In the reign of Henry VI., aron was by statute declared to be high treason, and visual with the penalties thereof. It has always been punished with great severity. In the reign of Edward I, the incendiary was, by a kind of law talionis, burned alive. Aron is still a capual offence in England, and in many of the United States, in the case of a dwelling-house burned in the night-time. In some of the states the period of time, has been substituted for that of death. Aron of a less becomes character is punished less severely. The tendency in this country is to confine the punishment of deam to the crimes of treason and murder.

AltT, FINE ARIS. Art is the means en-ployed by man to adapt existing things in the natural world to his material necessities, and his intellectual tastes. Man finds himself in the world without food, raiment, or habitation. this first want stimulates his invention, at 1 of of some material at hand he constructs an a plement to secure food; next the means of pro-ducing fire; then he invents cooking utensik and as he advances in civilization, he rasses cooking into an art, regulated by the comband sciences of physiology and chemistry. The on the necessities and luxuries of life by art. For instance, the Esquimanx' hat and the war-wam of the North American Indian, supply the rude want of shelter; but with the increase of man's abilities and resources, necessity and taste urge him on to the most complicated and beautiful structures. The first music is markly a discordant succession of sounds, but by measurements of art it has been carried to the most perfect harmonies. In the same way the savage dance has been converted into an elegant and health-promoting exercise. The operation of art is also seen in the indescribable varieties of costume with which man from time to time has distigured or adorned himself. In the beginning, art and invention are synonymous; for instance, in the manufacture of glassware, the means were invented by the aid of art; but the art of producing those wares continues, and is improved after the invention has been perfected.—The mechanic arts are those which comprehend the means of promoting and facili-tating the necessities of existence. The fac-arts begin with ornamentation. A canister of thisk well secured, is perfectly adapted to contain powder with safety; but when it becomes carved or embossed with emblems of the hunt, it becomes a product of taste. A trough of bark

so placed as to convey water from one point to snother, is an example also of art; but when the Romans built their famous aqueducts, with such upon arch stretching for miles across the country, they had called in the aid not merely of art, but of fine art, and that on a very grand and noble scale. So too the plainest and simplest structure to protect against the elements, might be used as a place for divine worship; but when the Egyptians and the Grecians built but when the Egyptians and the Grecians built their temples, the fine arts were called into use to adorn them with symbolic carvings and symmetrical forms. As more striking examples of the fine arts in this respect, the church of St. Sophia at Constanting the ch of St. Sophia at Constantinople, and St. Peter's at Rome, may serve. In these, we find architecture, sculpture, and painting, in the most elaborate and ornate combination, only com-plete, however, when we have also the cere-monies of the church and the sublime music of religion. Art administers to the necessities of life, while in addition to this the fine arts address the imagination. Thus in civilized nations, in proportion to the development of the intellect and fancy, we find the fine arts entering largely into the ornamentation of even the most as well as the greatest chicate. most common as well as the greatest objects.

Each of these is treated under its appropriate head. See Abchitecture, Dancing, Music, Parkting, and Sculpture. See also Es-

THETICS.

ART AND PART, a Scotch law term, signifying complicity in both contrivance and perpetration of crime; at once covering our own

tration of crime; at once covering our own law terms accessory and principal.

ART-UNION, a name given to societies for the encouragement of the fine arts by the purchase of works of art out of a common fund raised in small subscriptions or shares, and their distribution by lot. The idea originated with M. Hennin, an eminent French amateur, who in 1814 founded a society of this kind in Paris, which in 1816 was merged into the Société des amis des Arts. In Germany, the first artunion was founded at Munich in 1823, by Domenico Quaglio, Stieler, Peter Hess, and other Domenico Quaglio, Stieler, Peter Hoss, and other artists. This union has more than 3,000 members, and in the 13 first years of its existence paid on an average \$4,000 a year for works of art. The king of Prussia and Alexander von Humboldt took an active part in the establishment in 1828 of the Berlin art-union. Since that time Dresden and Laineia have followed that time, Dresden and Leipsic have followed the example: indeed, art-unious have spread all over Germany, until at this moment there are 60 in active operation. In Dresden, Leipsic, Breslau, Stettin, &c., fine galleries of art are con-nected with them. In Bremen, a fine hall has been built for the use of the art-union. The Düsseldorf and Frankfort-on-the-Main art-unions, the Prague art-union under the direction of Count Franz Thun, the Austrian art-union, which was established in 1850, independently of the Vienna art-union, all pay much attention to monumental and architectural art. The Cologne art-union takes an active part in the completion of

the Cologne cathedral. In 1851 Roman Catholic art-unions were set on foot, and at the synod of Elberfeld, in 1851, the question of Protestant art-unions was agitated, and in 1853 several evangelical societies were established. All these various art-unions have given a powerful impulse to the fine arts at home and abroad, especially that of Düsseldorf, which was founded in 1829, and dur-ing the 20 first years of its existence laid out on an average \$10,000 a year for works of art, as for instance: 24 paintings for altars, 11 oil paintings for public buildings, including the frescoes in the city hall of Elberfeld, and the fresco paintings in the emperor's hall at Aix-la-Charalla From Carmany the idea spread over Chapelle. From Germany the idea spread over Sweden, Norway, Denmark, and in 1834 found its way into Great Britain. From a report issued in 1836 by a select committee of the house of commons, we take the following re-

"These associations, for the purchase of pictures to be distributed by lot, form one of the many instances in the present age of the advantages of combination. The smallness of the contributions required brings together a large mass of subscribers, many of whom, without such a system of association, would nover have been patrons of the arts." Some time after the appearance of this report, in 1837, a number of gentlemen, among whom were Mr. Ewart, M. P., the chairman of the select committee referred to, and 4 other members of parliament, established the "London Art Union," which increased so rapidly that the subscription, which in 1837 amounted to only about \$500, reached in 1856 the amount of about about \$500, reached in 1856 the amount of about \$90,000. The success of the London art-union has given rise to many similar associations in vanas given rise to many similar associations in various towns of England, and also to an association for the promotion of the fine arts in Ireland. The first society of this description in the United States was founded in New York in 1839 under the title of the "American Art Union," and was in active existence until the close of 1851. In 1849 it had 18,960 members and an income of \$96,800. It distributed that was 1,010 weeks It distributed that year 1,010 works of art, including paintings, bronzes, and medals, and also 18,960 engravings, and as many more sets of lithographed designs in outline. Its operations for 13 years may be summed up as follows: Number of subscriptions, 89,610; amount of receipts, \$453,853 20; number of paintings, statuettes, medals, and bronzes, purchased for distribution, 4,402; number of engravings, including sets of prints and lithographed outlines given to its members, 165,767. During the last 3 years it also furnished to each of its subscribers an illustrated monthly publication devoted to the affairs of the institution, and also 18,960 engravings, and as many more cation devoted to the affairs of the institution, and also to art news and essays, and criticisms on art subjects. The close of the American art-union in 1851 was exclusively owing to the interference of the law in the state of New York with the system of distribution by lottery. The same difficulty existed in England in reference to the London art-union; but there it has been obviated by a new act of parliament. It seems that in New York a similar act could not be passed without a change of the constitution.

ARTA (anciently Ambracia and Ambracius Sinus), a gulf and town of Albania, on the boundary line between Turkey and Greece. The gulf is 25 miles long and from 4 to 10 wide. The entrance is narrow, of about half a mile general width. The gulf is surrounded with high land. The gulf le. Tho On the northern side of the entrance is the small town of Prevess, and on the south is the town of Vonitzs. The rivers Luro and Arta flow into the gulf; they are only navigable for The little town of Arta, from which the gulf takes its name, is about 7 miles up the river. It is governed by a Bey, and is in the pashalic of Yannina. It was stormed by Marco shalic of Yannina. Bozzaris in 1828 during the war of independence, and has never recovered its former prosperity. A bridge built by the Venetians over the river still remains; it is 200 yards long, and the height of the centre above the river is 100 feet. The gulf abounds with sar-

ARTABANUS, a native of Hyrcania, who massinated Xerxes, and incited one of his sons to kill another in order that he might then kill the survivor and seize the crown. He failed in the attempt to murder the second son, and was killed himself.

ARTABAZUS, son of Pharnaces, a Persian ho flourished in the reign of Xerxes. He comwho flourished in the reign of Xerxes. manded a division at Platava. After the defeat, he led his men by forced marches to Byzantium, whence he transported to Asia the remnant of it

which cold, fatigue, and the sword, had spared.

ARTALL, Giverpre, a brave soldier and celebrated duellist, was born at Mazara, in Sicily, and died at Naples, in 1679, aged 51. He was knighted for his bravery during the siege of Candia by the Turks, and on his return to Europe was much noticed by several princes, the duke of Brunswick and the emperor Leo-pold among others. His skill as a duellist gained him the name of the Chevalier du Sang. He cultivated a literary taste, and wrote several

ARTAUD, Nicolas Louis a French scholar born at Paris in 1794; was, under the restoration, one of the professors at the college Louis le Grand, when, on account of his liberal opinions, he was requested to discontinue his ser-After the revolution of 1880 he became inspector of the academy of Paris, inspector-general, chevalier, and officer of the legion of honor. He is the author of an essay on the partical genius of the 19th century, and of translations of Sophoeles, and Euripides, the comedies of Aristophanes, and Cresar's Com-mentaries. In 1840 the French government sent him to Algiers to report on the condition of public schools in the colory. ARTAUD DE MONTOR, AIRTIS FRANÇOS,

evaluer, a French diplomatist and author, born at Paris in 1773, died in 1849, was for many wars the secretary of the French embassy at lome, and became the bographer of the pops, ins VII. For some time he was superseded also diplomatic mission by Chatesubrand, who, however, on retiring after the death of duke of Enghien, made place again for Art who remained in Rome until 1805, when was appointed charge d'affaires at Florence. 1807 he was suspected of an intention to f trate Napoleon's ambitious designs upon I cany, and was recalled. In 1830 he retired fi public life, and, in the same year, he was el honorary member of the academy of

tions in the place of the marquis de Villeds
ARTAXATA, an ancient city, on the Ar 68 miles S. S. E. of Erivan, formerly the catal of Armenia, and now in ruins. It was stroyed with fire by the Roman general Car-bulo, but rebuilt by Tiridates, who called it Neromia. In A. D. 370 it was taken by the Persians, who partially destroyed it and carried into captivity most of its inhabitants. In A. D. 450 a famous council was held here, at wh

the patriarch Joseph presided.

ARTAXERXES, or ARTOXERXES, a F compound word, signifying, according to Here otus, "great warrior," and the title of seve otus, "great warrior," and the title Persian kings. I. ARTAXEES I. Longimanus, according to some auth account of one of his arms being long the other, or, according to others, on according to the uncommon size of his hands. He was 3d son of Xerxes I., and was brought to Persian throne by the assassination of his f and elder brother Darius by Artabanus B. C.), the captain of the guard. Artan nearly shared the same fate by the same I but the attempt being discovered, the of the son avenged the double murder house, and saved his own life. Troubl Bactria, excited by his elder brother Hysta immediately engaged his attention. Means Egypt, which had been a Persian province since its reduction by Cyrus (585 B. C.), a upon the favorable opportunity, and, for time, revolted against the Persian yoke. aid afforded by the Athenians to Egypt rend this struggle more severe and protracted to the former two. Artaxerzes at length e elled the Athenians to evacuate Egypt, I it then a matter of small difficulty to re to subjection. The Athenian, however in arms, continued the struggle on the account under Cimon with various until Cimon being soddenly cut off by a peace was concluded, having for its i virtual acknowledgment of the Ioulan in ence, and imposing humili the naval movements of the Preign of Artazerzes lasted \$ when it was ended by his deat and he was succeeded by his s 77.00 je 11 The reign of Artan exciting struggles of Bastria a mentioned, but during such int were permitted to him, he gav the improvement of the political a dition of his subjects. His memoria in history as a prince of amiable a moble and generous characters.

akened rather than strengthened,

er, in his reign. He refused, doubtless solitic considerations, to take any part in aloponnesian war, which was commenced; his reign, although solicited both by s and Sparta. Artaxerxes, on the auof Esdras, is supposed to have been Ahasuerus mentioned in Esther, who sed from India even into Ethiopia, me hundred and seven and twenty prov-II. ARTAXERXES, surnamed Mnemon, count of his good memory, was eldest son rius II., and succeeded to the throne of ther 405 B. C. His younger brother, governor of Asia Minor, claimed the portion of the refer his accession and raised and the star after his accession and raised and the star after his accession and raised and the star after his accession and raised and the star his accession and raised and father after his accession, and raised a in his own favor. Artaxerxes quelled wolt, took Cyrus prisoner, but spared him death at the solicitation of his mother, and ed him to the procuratorship of Asia. Cyrus, untouched by gratitude, raised conspiracy, which, under the command of shus, fought at Cunaxa, where both Cyrus learchus were slain, and from which point enced the famous retreat, known in histo-"the retreat of the Ten Thousand," and so erxes was put into quiet possession of the in throne (401 B. C). (For a full account expedition of Cyrus, see the "Anabasis" of shon.) This expedition, so disastrous to mapiracy, was nevertheless the cause of a rhich immediately after broke out be-Persia and Lacedemon. The position the Lacedemonians had assumed in the tion by Cyrus was an abundant occasion renewal of hostilities on the part of Artes. Agesilaus, king of Lacedæmon, was by the ephori in command of the Spartan in Artes. At the most critical period of medition, just as Agesilaus, convinced of ternal weakness of the Persian dynasty, reparing a descent upon the very heart of appre, he was ordered home by the ephori nd the country from a powerful league h had been formed through the intrigues taxerxes with the Athenians, by appealing ir hatred of the Spartan influence among recian states. This enabled Artaxerxes to successful issue to the war with Lacedæripened the combination of the Grecian against Lacedmmon, and so hastened the se of the Spartan power. Overwhelmed se accumulated fees, Sparta consented to miliating peace of Antalcidas (887 B. C.), ich she resigned every thing at which the racy of Cyrus had in the outset aimed, h the terms of the treaty were less disad-geous to Sparta than to the other states. ras, refusing his assent to the treaty which d up Cyprus to the Persian power, made tance of 10 years, and finally succumbed. arxes next prosecuted a war against the ii, in person, and rendered them tributary. xt turned his forces against Egypt, but

failed through the unskilful management of his general, Pharnabazus. Twelve years later he renewed the attempt with the same result. He married 2 of his own daughters, and put to death his eldest son, having detected him in a conspiracy, and was succeeded at his death (which occurred 360 B. C., after a reign of 45 years) by his son Ochus. III. Ochus, on his accession, assumed the name of Artaxerxes. He was the 3d son of Artaxerxes II. He is remarkable in history for his cruelty and lack of principle. The principal event of his reign was the complete overthrow of the Egyptian power, and its subjugation to the Persian throne (354 B. C.). But it is recorded that he treated the Egyptian religion with such great disrespect in his triumph, that on his return into his own country he was assassinated by an Egyptian. This may not be true. The time of his death is generally set down 338 B. (1)

down 338 B. C.

ARTEDI, Peter, a Swedish physician, a contemporary and intimate of Linnmus, who bequeathed to him his literary property. He is known as a diligent writer on fossils and quadrapeds, and the works on these subjects, which he intended to publish, were completed by his friends, under the titles of Bibliotheca Ichthyologica, and Philosophia Ichthyologica. He was drowned at Leyden, 1735, in his 30th year.

ARTEMIDORUS OF EPHESUS, a Greek geographer who flourished partly in the 1st and partly in the 2d century B. C. He is said to have travelled in Iberia, and Gaul, to have circumnavigated the Mediterranean, and to have made voyages in the Red sea and the Indian ocean, that he might acquire a perfect knowledge of those countries and seas, and be able to correct the errors which former geographers had fallen into in describing them. The great work in which he embodied the fruits of his travels and observations consisted originally of 11 books. All of these have perished, save the fragments and extracts that Strabo, Marcion, and other ancient writers have preserved.

ARTEMIS, one of the superior divinities of the Greeks, corresponding with the Diana of the Romans. In Homer and Hesiod, she was the daughter of Zeus (Jupiter) and Leto (Latona), and the twin sister of Apollo, born with him at Delos. Like her brother, she is armed with a bow, quiver, and arrows, and sudden deaths of women are ascribed to her darts. In the Trojan war she sides with the Trojans, quarrels with Hera, who takes the bow from her back, and beats her with it. She is unmarried, and a paragon of chastity. She slays Orion with her arrows, and changes Actsoon into a stag because he espied her bathing. In conjunction with her brother, she slew the children of Niobe, who had deemed herself superior to Leto.—The Arcadian Artemis was a goddess of the nymphs. She hunts on the Taygetan mountains, and was drawn in a chariot by 4 stags, with golden antlers.—The Taurian Artemis was a goddess hostile to strangers, who demanded the sacrifice of

all such people as were thrown on the coast of Tauris. Iphizonia and Orestes brought her image to Greece with them. The Taurian Ar-temis was worshipped at Sparta. Boys scourgtemis was worshipped at Sparta. Boys scourged themselves at her altar, until it was covered with blood.—The Ephesian Artemis, commonly with flood,—The Ephesian Arterins commonly known as Diana of the Ephesians, was entirely oriental. Her priests were ennuchs, and sho was represented as many breasted. Arternis was also identified with Selene, the moon, by tall, and nimble. Her hair is partly tied up, and partly flows down her back; the well-shaped legs are bare to the knees. Her attrisuaped logs are lare to the kness. Her attri-butes are the how, quiver, and arrows, or a spear, and stag, on which she sometimes rides cross-legged, and hunting hounds. ARTEMISIA, a queen of Halicarnassus, who

was contemporary with Xerxes. As a vassal of the Persian crown, she joined the expedition of that monarch against Greece, with a squadron of 5 ships. Before the battle of Salamis she made herself conspicuous by the wisdom of her counsel, and in that battle she made herself still more conspicuous by her skill and valor. She became enamored of a young Abydean named Dardamis, who did not re-ciprocate her affection. This so enraged her that she caused him to be seized, and had his eyes put out; but afterward regretting her y, she consulted an oracle as to how sho should make atonement for her crime, where-on the oracle commanded her to hasten to Leucas, and cast herself into the sea, which mandate she obeyed.—ARTEMISIA, the widow and successor of Mausolus, king of Caria, celebrated for the excessive grief which she manifested at his loss. She employed the most cloquent rhetoricians of Greece to pronounce panegyries in his honor, and raised a magnificent monument to his memory at Halicarnassus, She is even said to have mingled the ashes of her ided with her wine, and to have made this leverage her daily drink, that she might the sector die and treet him.

ARTEMISIUM, the name of several places in about geography. The most important of the residue northern coast and promontory of Eusenger which the Greek ships fought with the took of Norwes, 180 B. C. The name is

the first of Xirxos, 480 B. C. The name is derived to in a tempte of Artenis, or Diana.

ARTEMON. I. A theologian who flourished about A. D. 220 and was the founder of a sect could the Artenegatics, who held that Christ wis a rozen in, only better than other men by the separary vities. The doctrine of the Artenegatics was later received by Floul of Separary and house residualities. the Artenactics was later revived by Paul of Samesata, as I may others I are taught it, from the form a to the present day. II. A partenant of the content of the transit Alexander the tender. III. A scalptor, who according to Panage 11 seathers for the palace of the Casars, Alli Lily. Artenas and waits are two orders of the orders which material their peripheral extrements called capillary vessels, and in the heart, which is their common cen-

in the heart, which is their common cen-

tre. Arteries carry blood from the beart to every organ in the body, and veins bring back the blood from every organ to the beart.—There are two complete rounds of circulation is the human body, one termed pulmonary, and the other general or systemic. In one the blood is carried from the heart into the lung. to be there purified by the exhalation of car bonic acid gas, and the inhalation of pure air, and then returned to the heart for general circulation and nutrition. The pulmonary arteries therefore, carry impure blood from the heart to the lungs, and the pulmonary veins return pure blood to the heart. In the general circulate this order is reversed; the arteries convey 7 blood to all the organs, and the veins return dark, impure blood to the heart, to be again sent through the lungs for purification and regeneration.—Arteries and veins are somewhat different in structure. The walls of arteria are relatively strong and elastic remaining firm. cylindrical, and open, when divided, while the walls of veins are thin, and easily collarse when empty. The walls of arteries are composed of 3 coats, the middle coat being very strong the others membranous and less elastic.—The arreries pulsate in every part of the body, as the heart impels new volumes of blood through them at every pulsation. They terminate m them at every pulsation. They terminate maintenant capillary vessels, which supply the organs with new blood, and then pass into the veins to carry off the impure blood returned maximum. The terminations of the arteries are termed arterial capillaries, and the beginning of the veins, venous capillaries, the word capillary in both cases denoting the hair-like fine ness of these minute vessels.—Blood is impellethrough the arteries by the contractions of the heart, in the first instance, and by the tatural elasticity of the arterial walls, as it ban but in the veins the blood is forced onward by the pressure, and the movements of con-tignous organs on the walls of the veins, and also by a partial vacuum and power of suction in the heart itself produced by the aiternate emptying and filling of the auricles and ventre-cles of either side. The movement of the blood within the veins is not so vigorous, however, and valves are placed in many parts to check the backward flow, which may at times arise from want of external pressure, or sufficient central and internal suction to carry it steadily forward. No valves exist in arteries, as a such backward flow occurs, except at the month of the sorts, where a temperary back-ward flow occurs, as the left ventricle expension to receive a new supply of blood from the less auricle above.—Arteries are subject to disease and dilatations which form pulsating tun of a dangerous kind, technically called The wounds of arteries are also very dangerous, from the rapidity with which the blood gushes from the wound. The proper modes of stopping hemorrhage from a wounded artery are pressure, twisting of the ble vessel, and ligature above the wound.

ARTESIAN WELLS. These are so named on the province of Artois in France, anciently seed Artesium, in which they have for a long me been in use. They appear to have been user to the ancients, being occasionally alto by some of their writers. The China and the seed of the also used them at an early period. Arte-wells are small holes sunk in the earth by ing, through which currents of water, struck great depths, rise toward the surface, and attimes flow over. Water thus pressed up at have its source in some more elevated as, and be confined in the strata of rock, and the confined in the strata of agh which it has percolated; precisely as is conveyed in pipes below the surface, are is conveyed in pipes below the surface, is pressed up into our houses to a height nelly equal to that at which the pipes memenced. Water finds its way down into a earth by flowing into the crevices and assus of the rocks, and by percolating through present at a line are proposed its bollows out for itself its own bed, by arching the limestone and even in this way. solving the limestone, and even in this way duces great caves. The large streams that reduces great caves. The large streams that sw through these, and the innumerable little abtervances rivulets circulate between the laym of rock, seeking constantly lower levels.
Then forced by the pressure behind, they are shed up through any apertures they meet, or the are opened for them, and flow out as sings or as artesian wells. To sink a well of is kind, therefore, with a reasonable prospect r bringing up a supply of water, it is essential at the spot selected should be of a lower level an other lands in the vicinity, though these igher lands may be several miles off. The rate of rock also should be inclined toward he lower level; for if the dip should be in the pposite direction, the probability is that the raters would find their way down the slope nated of across the layers. In almost all roups of stratified rocks, some of the strata re impermeable to water; down these the raters must flow as upon a tight floor. In a egion of unstratified rocks, or where the strata re greatly disturbed, and lie in irregular positions, much uncertainty must attend the sinkng of these wells. But by going to very great lepths, wherever the surface is lower than that the country around, there is a strong probability of striking water that has its source at a igher level. Underground currents are met rith frequently at different depths, confined beween different strata of rock, and having no connection with each other. If the first suplies struck do not rise to the desired height, he boring is continued in search of others beow that will. It is sometimes the case that the sead of water is at so high an elevation, that he column bursts forth from the ground as a contain, throwing up a continual jet d'eau. The principle is precisely that of our artificial contains. By raising the water above the surace in a pipe, and letting it flow over, convenient water-power is obtained. Artesian wells re applied to this purpose at many localities in

France, the quantity of water they supply being found sufficient to run heavy machinery.—These wells are particularly valuable in a region where water is difficult to be obtained. Upon arid plains and prairies on limestone formations through which the surface water soon finds its way and is lost, they are of great importance. The natives of some parts of the portance. The natives of some parts of the desert of Sahara have sunk them with success to the depth of 1,200 feet. Their successful introduction in the dry limestone region of Alabama, will no doubt be followed by their general use in similar localities throughout the rat use in similar localities throughout the west-ern states.—From the great depth at which the currents of water are reached, their supplies may be regarded as permanent, provided so many wells are not sunk in the same neighbor-hood as to endanger exhausting the largest reservoirs. In the vicinity of London it is ob-served that the height to which the waters rise, diminishes as the number of the wells is indiminishes as the number of the wells is increased. In 1838, the supply of water from them was estimated at 6,000,000 gallons daily, and in 1851 at nearly double the amount, and the average annual fall of the height of the water is about 2 feet. But in cases of single wells, the supply of water or the height to which it rises is seldom known to vary. at Lillers (Pas de Calais) has been in steady operation since the year 1126. By their depth, also, the water brought up is warmer than that found near the surface. This increase of temperature with the death perature with the depth takes place at different perature with the depth takes place at different places. At Paris, where the mean temperature at the surface is 10°.6 C.= 51° F., the water of the artesian well of Grenelle is 82° F. from a depth of 1,797 feet, which is about 1° F. for every 58 feet deep. At St. Louis, the temperature of the water at 1,515 feet is 18°.18 F. higher than the mean temperature at the surface making the increase 1° F. ture at the surface, making the increase 1° F. for every 83.8 feet descent. At Charleston, S. , the temperature of the water at the surface 5. the temperature of the water at the surface is 68° F.; at 1,000 feet, 84°; and at 1,106 feet, 88°. The average rate of increase is about 1° F. for every 52½ feet, as stated by Prof. Hume, of the state military academy.—The hot springs that flow out to the surface in many parts of the world, are natural artesian wells rising from great depths. In Virginia these springs are found along the lines of great faults or breaks in the stratification of the rocks, by which formations, usually sepa-rated by thousands of feet, are brought into contact with each other.—Warm waters obtained by artesian wells have been applied to useful purposes connected with manufacturing. They are especially valuable where pure water of a uniformly warm temperature is required. In Würtemberg, large manufactories are warmed by the water being sent through them in metal-lic pipes. A constant temperature of 47° is thus maintained when the temperature without is at zero. Hospitals and greenhouses are also kept warm in the same manner.—The strata of clays, sands, and limestones, which form the

tertiary basins of London and Paris, are particularly well arranged for furnishing water by artesian wells. Covering areas of many square miles, the slope of the strata is toward the tre of the basin, and here, at the depth to which these reach, the waters must collect in large quantities. The strata, moreover, are not difficult to penetrate by boring. In these basins are concentrated the greatest number and the most expensive of these wells. That of Gre-nelle in the Paris basin is famous as the deepest among them. It was commenced in 1866 with the expectation of obtaining water at 1,200 or 1,500 feet, in the secondary green sand formation, which underlies the chalk—the uppermost member of this series. The boring was com-menced with an auger of 1 feet diameter. At 500 feet it was reduced to 9 inches; at 1,100 feet to 7! inches; and at 1,500 feet to 6 inches. Years passed as this work went slowly on under the direction of the government. By various accidents it was retarded for months at a time. At the depth of 1.254 feet, the tubing broke off, and fell with 270 feet of rods to the bottom of the hole. Fifteen months were spent in breaking these and extracting them in pieces. At 1,500 feet the government would have abandoned the enterprise, but for the urgent appeals of M. Arago. It was continued till, on Feb. 26, 1841, at the depth of 1,792 feet, the boring rod sudderly penetrated the arch of rock over the subterranean waters, and fell several yards. In a few hours the water rose to the surface in an immense volume, and with great violence, bringing up said and much. To check the supply, it has been found necessary to raise a vertical pipe many feet into the air, in which the water rises and flows over. Its temperature is uniformly 82° F. The extreme depth is 1,806 feet. The water is perfectly limpid, and flows at the rate of 500,000 gallons in 24 hours. This is the well that is made use of for warming the hospitals at Grenelle. -A deeper well than this was completed at Kasingen in Bayaria in 1850. It is 1,500 feet in sandstones, 150 in magnesian limestone (Zeensteine, and 168) in rock salt. At the depth of 1,878) feet, the water burst forth in a colonia 4 inches in diameter, and rose 58 feet a give the surface, spreading out like a puls, tree at the top of the jet. Its tempera-ture is to. It, and it is charged with 31 per-cent, of pure sait, and dis harges 100 cubic feet per matrice. There are same chalybeate springs for not of a There are sainted harybeate springs in the vectorly, from which 5 eq.(00) bottles are annually experted, and it was for salt water that the well was such. Its whole cost has been 20,600. Another well at Monden, in Hanover, has reached a still greater depth, but the water rises to an elevation above the surface of only rises to an elevation above the surface of only 15 fort, and is not so intensely suit. Artesian wells so k for brigging up sur water are com-tion, in the United States, especially in New York, Petrosylvan a and Virginia. The deep-cst well on talls country, and it may be in the word, as that stak at St. Louis by the Messrs Belcher, for their sugar refinery. It

was commenced in the spring of 1849, 300 f distant from the bank of the river, and the feet above the level of the sea, in the feet above the level of the sea, in the co-boniterous limestone formation. An interesting account of its progress is given by A. Letter, M. D., in the "Transactions of the A-ademy of Science of St. Louis," vol. i, no. 1, 1857. The boring from the bottom of an open well 30 feet deep, was continued by hand power through 219 feet of calcareous strata, the diameter of the base being 9 inches. In Sent. 1850, and the bore being 9 inches. In Sept. 1850, stempower was employed. In Sept. 1851, the bare was contracted at the depth of 457 feet to 2 inches. In April, 1852, the sinking was store a few weeks to enlarge the hore of the first feet to 16 inches, for the purpose of parting in a large pump and testing the water. The bows was then enlarged to 5] inches, from the depth of 457 feet to 1,050 feet, and a 4-inch tube put in to hold up the shales of the last 150 feet. The sinking was then continued with a 3 bore till March 12, 1854, when the depart 2,199 feet was reached, and the work stopped 2 silicious and clayey beds belong tag to the silurian formation. The strata penetrate! we alternating limestones, shales, sand-tones, wat arcertaing innestones, states, sandstones, which has beds of chert rock and marls, which by Dr. B. F. Shumard, of the state geological survey, are supposed to represent the Chernagroup, the Hudson river slates, and the Basis river and Trenton limestones. Below them from 1,515 feet, is a stratum, about 100 in thick, of a white soft sandstone, which appear to be the water-bearing stratum. to the surface in the counties to the west and south of St. Louis, dipping toward the cay The water is discharged through a 20-men pe bolted to the rock, and flows over regu boiled to the rock, and flows over regulary as the rate of 75 gallons per minute. Its tem-perature is 73 14 F. The mean temperature of the place being 55 122 F., the increase to the depth of 1,515 feet is equal to 1° F. for every 83.3 feet of descent. The water proves to be untit for other than medicinal purposes, having a strong odor of supporetted hydrogen, and salty faste. Its specific gravity at 47° F. B. 1.0008; and the composition of its scal constituents is thus given by Dr. Litton, 1.000; and of the water yielding 8.791 of sould matter.

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Carlupate of protoxide of Iron,				
Carlestate of lime,		٠.		.1.00
Carbonate of magnesia				er er
Chlorode of calcium,				
Chloride of magnesium,				.044
Sulphate of lime,	•	•		.6236
Chloride of petaseium,		•	•	1006
Chloride of sodium	•	•		
A STATE OF THE STA		•	•	.000
Free carbonic act i	•	•		
Precentionic acil,		•	•	-

The drills used in this work were of simple wedgeshape for soft rock, and four-square for hard rock. They screwed into an iron rod 30 feet long and 21 inches in diameter, weighing about 600 lbs. This was screwed to a pair of slips, by which arrangement the drilling was effected by

weight of the bar alone. The main rods to hickory poles made of 2 pieces, split and together; the lengths were about 80 feet they were suspended to a spring beam. rked by a steam engine running 80 revolu-in a minute, and giving a stroke of 14 hea. The turning of the rods was done by Four men were required to carry on the ration. The time actually spent upon the merk was only 33 months; the whole cost is the by Dr. Litton to have been not less than 120,000; but by later authority it appears to have exceeded double this amount. It may with ety be referred to as an example alike honrepriety be referred to as an example alike hon-mable to the proprietors and to the country itself, if a great undertaking being successfully carried to its termination by individual enterprise and wells sunk in the United States, none are so markable for the difficulties encountered and R.C. Since the year 1824, no less than 5 attempts ave been made by the city government to ob-in good water by this means. In 1848 the is operation was commenced under the direc-ies of Maj. Welton, who had had much experi-nce in sinking artesian wells in Alabama. The a first penetrated were alluvial sands, satustate it rested upon a rock of the eccene forma-ies, and finally reached the depth of 230 feet, From this point down, alternations of hard rock and loose sands were met with, the latter causing the same trouble as those above, running in and filling the well, sometimes even to the height of 140 feet up from the bottom in a single night. When it was found impossible to draw out the sands from these beds, the plan was adopted of shutting them out by tubing. The bore of the lower part being first enlarged from \$\frac{1}{2}\$ to \$\frac{1}{2}\$ inches, was lined with sheetiron tubes to the depth of 700 feet. Sand flowing in at 1020 feet rendered it necessary to take ing in at 1,020 feet rendered it necessary to take out the thin tubing, and replace it with heavier tabes of 4 inches diameter, and 1 of an inch thick, which screwed one upon another; this was done to the depth of 1,102 feet. The sinking was extended, of 3 inch bore, to 1,250 feet, the last strata being sandstones, sand, and marls, probably of the cretaceous formation. charge, 10 feet above the surface, is about 1,200 gallons an hour. The water is saline, and disagreeable to the taste, but soft. Its temperature is 87°. It is used for steamboats, and the demand is such that another well, 30 feet distant, was commenced in February, 1856, which it is intended shall be carried down of 1 foot bore. This has already reached the depth of 950 feet. By the use of steam power the work is much more rapidly carried on than was that of the old well with horse power. The whole cost to the city, of both wells, has thus far been about \$35,000.—In New York city, artesian

wells were sunk years ago by Mr. Levi Disbrow, and the business has since been continued to the present time by his son, Mr. John Disbrow. The structure of the island is exceedingly unfavorable for very successful results to be expected from these enterprises, the strata being nearly vertical, and separated from all more elevated districts by deep salt water channels. The supply of fresh water likely to be met with below the surface cannot therefore be near the surface cannot therefore be near the surface of the surface cannot strate the surface that the surface cannot strate the surface that the surface tha not therefore be very large; nor can it, for want of sufficient head, rise to any great height in the wells. One of the oldest and deepest of these wells is at the United States deepest of these wells is as what hotel, known, when the well was sunk, as Holt's, hotel, known, when the well was sunk, as Holt's, between Pearl and Water streets. The boring for the first 126 feet was in stratified sands, and blue clay alternating with river mud. At this depth the surface of the rock was struck under a bed of coarse gravel; and below this the shaft was continued in the gneiss rock 500 feet farther. The upper 200 feet of the well was bored 3 inches in diameter; the remainder was 2½ inches. The water for a time was tolerably od, but soon became impregnated with the good, but soon became impregnated with the salt river-water, until it was at last rendered unfit for use. At the corner of Bleecker street and Broadway, a well was sunk 448 feet, of 7 inches bore—the first 42 feet through sands and gravel, and 406 feet through the hard gneiss rock of the island. The water, as stated by Mr. Levi Disbrow, rose within 30 feet of the surface, and to the amount of 120,000 gallons in 424 hours. 24 hours. At the dry dock, 11th street, East river, the rock, met with at 130 feet, was pene-trated 200 feet further. Many other wells of this nature have been sunk in and near the city, but with no features of particular interest.— The attention of the United States government has recently been directed to the subject of sup-plying water to the vast plain of Llano Esta-cado, by means of artesian wells. This plain, in the 32d parallel of latitude, lying between Arkansas and Missouri on the east, and Mexico and the Mesilla valley on the west, would, if supplied with water, afford a route to the ex-treme south-west, some hundreds of miles shorter than any other. It is covered with a hardy, nutritious species of grass, which the cold of winter cannot destroy, and thus pasturage for cattle through the whole year is furnished. In order to open this communication, the war department, in 1855, sent out a party under the direction of Capt. Pope, for the purpose of sink-ing artesian wells. His first encampment was ing artesian wells. His first encampment was upon the bank of the Pecos river, in the 32d parallel of latitude. At the distance of 15 miles due east from this point, he sunk the first well.
The geological formation he found favorable for his work. The alternating strata of indurated clay and cretaceous marls were easily bored through, and yet were sufficiently hard to prevent the walls from falling in. At the depth of 860 feet, the first stream of water was struck, which rose to the height of 70 feet in the tubing. At the depth of 641 feet, the second

stream was struck, which rose 400 feet in the well. Five miles eastward from this point, in the succeeding year, he sunk a second well. Here he struck the same streams which he had struck and at the depth of 860 feet he struck another which rose to the height of 750 feet in the tubing. Having experimented thus far, he was obliged to suspend his labors, as his materials were exhausted; but enough his been done to show the practicability of supplying water to this great plain by the method pro-posed, and it is to be hoped that at no distant day congress will make further appropriations, and that the work may be successfully completed. Trere is a class of wells to which the name negative artesian wells, or drain wells, has been giver, that are sunk to convey away sur-face waters into some absorbing stratum. They are of service particularly about manufactories from which large quantities of impure liquids are discharged, the flow of which upon the surface might prove a nuisance. If there is reason for believing in the existence of any sately stratum below the surface, or one of limestone, which usually abounds in fissures, a well of this kind may be sunk with reasonable prospect of its answering the desired purpose.— The process of sinking artesian wells is called It is coud ieted by augers or drills attached to the end of an iron rod, and this connects by screws to another rod, and so on to any length required. any length required. To the upper end of the rol a transverse handle is attached, by which the instrument is partly turned round by 2 men at each time it is raised and dropped. The cutting edge of the anger or drill thus chips a fresh line across the bottom of the hole at each blow. The blow is given by the rod falling by its own weight after it is lifted a few inches. The lifting is done by the men at the handle The Litting is done by the men at the handle assisted by another one at a higher elevation, who vibrates a long horizontal pole fastened at one of it in a pile of stones, to the middle of which the red is suspended by a chain. The vibration of this clastic pole lifts and drops the red, and the workmen turn it by the transverse handle. As the red becomes heavier with its increasing leagth, other conditiones are adopted for the red of the transverse handle in the place of the transverse in the place. of the process reperling coiled round it, one end of which has held fast by a laborer as the windless is tureed, litting the roll hung on the other end. By letting go the rope the coil unwinds, and the roll fills; much are expedient is by constantialed to a windless. But the world of the role bear ies at last too heavy to be rosed by men, and making are centrived to be worked by horse power. At the well of to be worked by horse power. At the well of Grenelle it required 8 horses to work the whim or machine for litting out the rods. As the hole is carried down it is necessary in most settly ous to protect its sides with takes of wr ught from Sometimes tamping with clay allowers the futurese near the surface. A set at sweets the purpose near the surface. A set it these this is sent down one on another in learths of about 6 feet, one screwing into

second set should be required at a lowerd it must be of a less diameter so as to go the the former, or this must be all drawn out instruments prepared for this purpose, an hole enlarged. The various kinds of instruemployed for sinking the hole, enlargi-raising out the material as it accumulate for breaking up the instruments themsel the rods that may become detached and d are too numerous and of too complicated i to be described without drawings; and same may be said of the various operations connected with the sinking of the holes. well-known slow progress of the work is a to the time required for drawing out the length of rolls to discharge the groundments that collect in the bottom of the This must be done with every few inch or even oftener than this; and as the used to be conducted, it was necessary drawing out all the rolls to which the drill we attached, to send them down again with a cylindrical spoon, gathering up the fine free ments. This was then lifted out, each length of rod unscrewed as it came up, and the whole returned with the drill to recom-the sinking. The length of time consumoccasional accidents has been already r to in the account of the Grenelle improved and more simple process has be introduced, taken from the Chinese, by wh it has been in practice from time immense Their artesian wells are wonderful for depth and numbers. The missions: stated, in 1827, that in the province of On To Kiao, in a district 10 leagues long and 4 is wide, these wells may be counted by "to thousands," sunk at very remote period the salt water and bituminous masters to come out with the waters. These product met with at the depth of nearly 1,800 feet; some of the wells that had lost them, have b carried down even to 3,000 feet. Fr enormous depth currents of carburetted l gen come up in such quantity, that this is by its combustion to furnish heat for ever rating the salt water. Instead of using red sink these wells, the Chinese suspend the ting drill, which is attached to a heavy rol 6 feet long and 4 inches in diam rope or chain which passes over a wh Around the drill is a cylindrical chamber, wh by means of simple valves, takes up and the broken fragments. As the rope is a and dropped, it gives by its ton the drill, causing it to vary its position at a stroke. When the cylinder requires to be charged, it is easily wound out by a charged, it is easily would out by a white horse-whim. The rope is protected from a by knobs of wood attached to it at interm. This principle has been successfully applied Germany to sinking holes for ventilating as With large drills 18 inches in diameter, a of this size has been carried down several is dead for these large. dred feet deep. It might also be well age

another, or attached together by a collar.

emploring for mineral veins and beds of coal, is now sometimes done with the more examine process. We have authentic accounts at in France by this new method an operator, i. Collet, contracts to sink wells in the chalk. Collet, contracts to sink wells in the chalk massion as deep as desired at 9 francs the massing metre, which is 51 cents the foot. His paratus costs only \$100. With the aid of 2 schmen he sinks at the rate of 25 to 35 feet day in the chalk. He has already sunk are 100 wells, each of which has furnished are water at an expense not exceeding \$60. The such results it may well be regarded as traordinary that the old process still continues a general use. The objections to the process general use. The objections to the process that the rope is liable to break, that stones is liable to fall in and obstruct the operation, at that there is danger of the apparatus devicing in soft strata from a vertical course, thus

a hance to fail in and obstruct the operation, at that there is danger of the apparatus devising in soft strata from a vertical course, thus madering the tubing impracticable.

ARTEVELDE. I. JACQUES VAN, a citizen f Ghent in the 14th century, famous as a mader in the popular tumults of the time, and the became the absolute governor of Flanders, riving Count Louis of Creev into exile. He was riving Count Louis of Crecy into exile. He was riving Count Louis of Crecy into exile. He was favery distinguished family, but caused himself be enrolled in the guild of brewers in order a sequire popular influence. By his great lakes, talents, and eloquence, he soon became popular idol, and was chosen by 50 other corrections, beside the brewers, as their leader. In appears to have governed with despotic paris, and according to Froissart, "he had in wary town and castlewick through Flanders, arreants and soldiers in his pay to execute his eants and soldiers in his pay to execute his re inclined to rebel against him, and to two him information. At the same time he ban-shed all the most powerful knights and esquires from Flanders, and such citizens from the prin-ipal towns as he thought were least favorable to the earl; seized one-half of their rents, giving he other moiety for the dower of their wives and support of their children." So formidable So formidable was the power of Artevelde, that his alliance ecame an object of great interest to Edward II. of England in his designs on France, and he protector, or Ruwaert, as Artevelde was tyled, became a most intimate friend of the narch, who sent ambassadors to solicit his ance. It was at Artevelde's instance that dward added the French lilies to the royal rms of England, and styled himself in addition o his proper title, king of France; which as-temptions were continued by the British soverms until the union with Ireland. The reason s pretension on the part of Edward was s to secure the allegiance of the Flemngs, who had vowed not to make war against france. Their scruples were overcome, but the litish invasion not being successful, Artevelde egan to dread the vengeance of the count of landers. landers. In order to secure the protection of ingland he endeavored to induce the people to apel the counts from the succession, and ac-

knowledge the Black prince, the son of Edward, as their sovereign. This excited a tumult which Artevelde in vain endeavored to pacify. and he was massacred in his own house in 1845, after 10 years of power. II. PHILIP VAN, the son of the preceding, was named in honor of Philippa of Hainault, queen of Edward III., who stood godmother at his baptism. In 1382, nearly 40 years after the death of his father, when war had again broken out between the men of Ghent and the count of Flanders, the people remembering the former services of Jacques van Artevelde, sought his son, carried him to the market-place, and by acclamation chose him *Ruvaert* or governor. It is said that one of his earliest acts when in power was to revenge the death of his father, by putting to death 12 of the principal conspirators against him. He at once engaged vigorously in the war, and at the head of 5,000 men marched against Bruges, before which city he encountered the count of Flanders, and totally defeating his army, entered the place. He sent off to Ghent 500 of the principal citizens of Bruges as prisoners, and the count of Flanders himself escaped with great difficulty. The booty which escaped with great difficulty. The booty which fell to the men of Ghent proved of immense value, gold, silver, jewels, and precious stuffs being found in such quantities, that for a fortnight 200 carts were constantly occupied in transporting the pillage from Bruges to Ghent. All the towns in Flanders excepting Oudenarde submitted to Artevelde, who assumed the style of a sovereign prince, living on his return to Ghent with great magnificence, giving rich and costly banquets, and adding to his name the title of Regard de Flandres—the overlooker of Relandres. Among the avitale with which Arterials wi Among the articles with which Artevelde enriched the city was the golden dra-gon of Bruges, as large as an ox, which, for a long period afterward, surmounted the belfry of Ghent, and was said to have been brought from Constantinople by the Flemings, who followed the fortunes of Baldwin, count of Flanders, during the 4th crusade.—While besieging ders, during the 4th crusaue.—wanted Oudenarde some of the men of Ghent having On the frontier of France, the duke of Burgundy instigated Charles VI. of France to take up arms against Artevelde, and in favor of his vassal, the count of Artevelde endeavored to propitiate Flanders. the French monarch, but without success, and he then despatched ambassadors to England to solicit aid, and obtain the payment of 200,000 crowns, which Jacques, his father, had lent to Edward III. 40 years before. Failing in these requests, and several of his letters to the French sovereign having been treated with contents of the payment of 200,000 crowns, which payment of 200,000 crowns, whic tempt, Artevelde prepared for war, while a French army under the command of Oliver de Clisson, the constable of France, marched for Flanders, the young king Charles VI. taking part in the expedition. Peter du Bois, one of Artevelde's commanders, was defeated by the French, who slew a large number of the Flemings, and the town of Ypres surrendered to

Charles without striking a blow. Finding that Cheries without striking a blow. Finding that diffic, the were thickening around him. Artevelds determined to risk a general action with Freich, and encounters I them Nov. 27, 1882, at M at d'Or, rear Ypres. He was totally defeated, shain after fighting bravely, and the army he had brought into the field was scattered, leaving 25,000 dead. The combat, styled the lattic of Resiscopic scarce lasted an hour. The body of Arteveck was found and no wounds have a discovered by deader we be

hour. The body of Artevede was found no woulds being discovered his death was by some attracted to suffect in from the pressure of the throng during the fight, and after being stripped it was left suspended to a tree. The fortunes of Philip van Artevelle have formed the subject of an elegant dramatic point by Henry Taylor, of Enriand.

fortilité of Phillip van Artevel le have formed the solite it of an elegant dramatic poem, by Henry Taylor, of England.

ARPHHITIS (Gr. a. 2 prop. arthodation or joint. This word is to him only used to den de inflammation of the joints, of which there are 3 kinds. A soft manage arthrods, in unacte arthrods, and growth arthrods and growth of the joints. For the 2 latter varieties, see Ring waves and Gour. Translationarthrods is a requisite only phenomenon arising from wood is a regulative displication arising from the displication of place in a content within the system. When a suffering from recent earlier from arthrods. To we first a first product of the form point of the first persons of the conflict of are last to suffer from arthrods. To we first and wounds make by sharp instruments, may all predice a refer than and in an tax for first the some of the arthrodist of the joint is last well almost the arthrodist from arthrodistic only or the interest of the joint is last well almost the arthrodistic first day or two the case may some very simple and wave out dispose to the patient, but into on the third or the forrification for the first day, or even later, the symptonic of the forrification of the first day, or even later, the symptonic or the forrification of the some hosting part of the forrification is sometimes so and term arthrodistic formation arthrodistic or the solite and the paint of the standard and the properties is real, bulled is vointeely and the part of the solite in the form looking part in the continuation of the arthrodistic arthrodistic or the point it is a son test discuss in the When the joint, it is a son test discuss in the When the joint, it is a son test discuss of the last arthrodistic manage and the part of the point of the properties of the properties ly scatch and admitting a restrict the joint, it is a serious discussion in translation artificities, the proper treatments of each of a label of the discussion of label of the label of t

so any more product to an ownt to form its.

own opening for evacuation, than to make m incision which may give rise to serious compacations

cations.

ARTHUR. The life and deeds of this ancest. British hero, if indeed there ever was such a person have been so involved in fiction, that is not easy to give other than a mythologist account of him. Nennus and Geoffrey, the most ancient Cymra poetry, the Triais, the period of Llywards Hen, and of Taliessin, specific productions of the production of the period of the pe of him as a prin e and warrior, but not greatly superior to others of his contemporaria. His explicits occurred in the beginning of the 6th century. Neuritis says that he gained if victories over the Saxons. Certific the Saxons. his great opponent and his efforts were classed directed toward confining the Saxon within the limits of Wessex. Modresh, his neparational like if from him, which brought on the finithatis of Comban it Comwall, in 542. Modest was claim and Arthor mortally wounded by where is was traveled by so a to Chastorbury, where is was traveled. To the no preserved the page of his birtal and the total was opened by order of Honry II. in the 12th century. Grades Can roles to the historian was present and saw the birts and sword of the moment, and a letter ross let into his touristonic wan the insert to a in mile Homan letters. He was as the letter of Arthon as tourist at a same. The lattick to be had and leaf them on around some story of no had and leaf them on around The limitsh Colts long believed that he would so to try to hack and leaf them on again to drive the Sussema hitto the sea and vinlamits in the Center race the undivided sovereign of Britanian. The Arrivir of remance is the sin of Uther Pendraran by Increas, who of Gorlos discool Comwall, and lowed his tark to a man of device, by which Uther, assuming the form of the help's not and obtained access to her. At the total of Mount Back in he saw 470 Supits with his most sword Canternal. 470 Six its with his good sword Canturn and his lates R in He are dreve the Scots and Plets lack to their nighted fastnesses. He distribute the Paran temples of the Saxon, and restored thristianly it the following year and restored Christian vi the Following ver-he conjugated Breinian a shorter time than Cromwell did not not content with Era-pissed over to be in land annexed in Than he spent fill years in peace. For years more were occupied in conquests made in Norway and that Disconting to Edition of the conand Gaul. Returning to Britain again, he has a great gathering at Caerleon, in Monagan shire, where tributary kings in scores attends him. The Romans demanded tribute of his and to chastise their insolence, like Dathi of In land, he rushed through Gaul impetuously, and was preparing to cross the Alpa, when the revolt of his nephew Modred, who had allied himself with the Saxona Scota, and Picta re-called him. The story of his death in the remane a is not different from that detailed above as the nearest approach to historical versy. Britain, both north and south of the Twee abounds in memorials of Arthur's there at Arthur's Seat, Arthur's Round Table, Arthur's Conditional Control of the Condition of the Co

Castle, and the constellation (Telyn Arthur)

quently used. The French sometimes gather the

*s harp. His name is most frequently a Wales.

HUR, RICHARD, a British vice-admiral, 778, died at Plymouth, Oct. 26, 1854.

From his earliest youth connected with val service, and gradually rose from a servant to the rank of a commander.

as conferred upon him in 1805, on occahis capturing 4 Spanish schooners in for Maracaibo, and on his cutting out if of Maracaibo, and on his cutting out.

his capturing 4 Spanish schooners in it of Maracaibo, and on his cutting out r of the hostile boats from under the so of Santa Marta. During the Scheldt ion of 1810, he gave another evidence courage by running in under the batter Dieppe, and attacking 7 lugger privations.

me of which he succeeded in bringing This daring exploit led to his promotion rank, and he was appointed vice-admiral

THUR, TMOTHY SHAY, an American; born near Newburg, in Orange county, in 1809. He was about eight years when his parents removed to Baltiand his boyhood was passed with but tivileges of education. He was apprena a trade, was for several years a clerk, 1853 visited the West as agent of a bankmany. Meantime he had entered upon se of reading and study, and upon his to Baltimore became connected with a sper, and began to publish a series of swels. His productions are numerous, conchiefly of works of fiction of a domestic ter, written with a moral aim. They can widely circulated in the newspapers cheep editions, and have been received opular favor. For several years Mr. Aras also been actively engaged in the pro-

of journalism.
THUR'S SEAT, a hill in the vicinity of righ, from the summit of which tradition at King Arthur beheld the country, and hich he defeated the Saxons. The rocky with which it terminates rises 822 feet 3 above high-water mark at Leith. From it the traveller may survey the centre of ingdom, and obtain a complete view of urgh, the whole forming a landscape to be surpassed in Great Britain.
THUR'S STONE, an enormous block of

FHUR'S STONE, an enormous block of me on the summit of Cefu Bryn, a hill les, Glamorganshire. It is 14 feet in and 7 feet in thickness, resting on 8 ters, and is mentioned in the Welsh as one of the 3 most stupendous works ain.

ICHOKE, (cynara scolymus and cynara sis), the green and globe artichokes of dens of Europe and America. They were in the south of Europe as early as 1548. plants resemble large thistles—the porten is the under side of the head before wer opens. The whole head is removed iled, the leaves laid aside and the bottom dipped in butter with a little pepper and A sauce made of butter and spices is fre-

the lower end of the leaves raw, dipping them in oil, pepper, and vinegar. The globe variety is generally preferred by gardeners. Artichoke seed should be sown in a gentle hot bed, or warm than the proper of the open border as early in the spring as frost will ermit. The plants should be set at a distance of 4 feet apart each way, in a stony soil, well prepared. They will bear heads the succeeding prepared. They will bear heads the succeeding year. Some gardeners place 6 plants in a hill, making the hills 6 feet apart. Artichokes may be raised from sets or shoots which so often occur in old plants. They should be removed and carefully transplanted. As often as heads are removed from a plant it should be broken down to encourage the growth of new shoots. In autumn all plants should receive a good supply of earth or litter. Stable dung is too heating, and should never be employed. In the spring remove the autumn covering and take spring remove the autumn covering and take spring remove the autumn covering and take away all offsets except two or three of the best. During the first season the young plants of the previous year will produce heads from June till October. In succeeding years they will give heads from May until June or July. To have them the whole season, an annual plantation must be made. The flowers of the articheka have the property of rennet in curdchoke have the property of rennet in curd-ling milk. The French use the heads of ling milk. the second crop of artichokes when dried, baked in meat pies with mushrooms. Artichoke heads are sometimes made to grow larger by tying a ligature tightly around the stem 3 inches below each.—The JERUSALEM ARTICHOKE (helianthus tuberosus, order composite) is not a true artichoke, but the root of a species of sun flower. In Italian it is named girasole, or sun flower, and in English it is corrupted into Jerusalem. In America it is sometimes known as Canada potato and Virginia potato. It was well known in England as an edible root, about the year 1620, having found its way thither from Brazil. The tubers are good for swine and cattle, they are capable of resisting the severest degree of cold when left in the soil the whole winter; ing lifted in spring they form excellent food for stock. The Jerusalem artichoke may be grown in all classes of soil, and when grown in light sands and gravels, swine are allowed to dig the tubers for themselves. It is difficult to eradicate this plant from the soil, and it is seldom entirethis plant from the soil, and it is sendent entirely removed where once rooted in a rich soil.

The tops cured in autumn form an excellent
hay, yielding 5 or 6 tons per acre. Sandy soil
of fair quality is said to yield from 1,200 to
1,500 bushels per acre. They are not quite as
nutritious as the potato, containing 72.2 per
cent. of water, being about 4 per cent. more
than is contained in the potato. Thomas Noble,
of Massillon, Ohio, planted artichoke tubers in of Massillon, Ohio, planted artichoke tubers in drills $2\frac{1}{2}$ to 3 feet apart, using a little more seed per acre than for potatoes—result 1,500 bushels per acre—fed to sheep. Tops cut and cured in October were preferred to corn fodder. Cordage is sometimes made out of the tops and in age is sometimes made out of the tops, and in

the south of Europe a kind of coarse cloth is manufactured from them. The farmers of manufactured from them. The farmers of America would do well to turn their attention to this root as a valuable adjunct to the feeding department of the farm.

ARTICLE, in grammar, the first part of speech. It is used before nouns, and makes them either definite or indefinite in their signithen, fication. In theire, the fication. In the English language a is the in-definite, th the definite article. There are traces in all languages which show that the article was originally a pronoun. The Greek and the German decline the article, in the 3 genders, and in all the cases; the Latin lan-guage does not use it at all. The Greek language has no indefinite article.

ARTICLES OF FAITH, concise statements

of tenets held and promulgated by any religious body, assent to which is the condition of church The Protestant church distinguishfellows! ip. es the articles of faith into fundamental and nonfundamental sterms first used by Hunnius, 1626). making faith in the fundamental alone essential to salvation. Articles of faith are of progressive growth. It does not appear that the princitive chareless made use of them. The apostle speaks of "the form of sound words," but it is not clear that he had reference to my known formulary of doctrine. That which in the clearch is now known as the Apostles' Creed, though it may be a perfectly correct statement of apostolic doctrine, appears not to have been referred to during the first 3 centuries of the church, as possessed of apostolic authority. As Christianity began to spread, and churches were organized with a wide geographical separation from each other, the personal labors of the apostles being now concluded, and the circulation of the Sera tures limited, formularies of from of the Serjeures innited forminaries of faith became more or less necessary to keep up organization and intercourse. These were at first very brief, and far from being perfect digests of Christian doctrine. They gradually increased in definite hese, by collisions and revisions. Thus the council of Nice (625) constructed a sort of celectic creed from those which had already sprung up as the Apostles', and that of Athanisiash. So the councils of Constant north (681) and Ephesus (431). The successive chargers at of creeds had been ne-cessary to dut out forethes, who, on account of the advantages of church communion, would of the advantages of charch communion, would put their own construction on the laconic and unguards between its which the faith of the charch that become first expressed. When the reformation containing between the attempt was natural to express as points fly as possible the find contail differences between the reformers and the charch, and when the charch which the charch would be the best of the charch and the charch would be the formers and the charch are the charch and the charch and the charch are the charch as the charch are the charch and the charch are the charch are the charch and the charch are the charch are the charch are the charch are the charch and the charch are the charc of England was organized, there was a toward of ringular I was a relatively there was a few and in the strenge is effort to express in concise, yet soon that by latin are, the faith of a church which help has informative the opposing result is closests of the reality. The result was the obtained so if or the aveyeding of the dy-versities of epinion, and the stablishing of con-

sent touching true religion, put forth by a queen's authority" (1562). These artists we chiefly drawn up by Cranmer and Reliey. A candidates for ordination must substruct the articles. The general doctrine of the Eagle church concerning the sense in which sh quires subscription, was declared in the re of James I., viz.: that "they should be tal in the literal and grammatical sense." As tempt was made to change the articles (164), and give them a more Calvinistic form, and a more pointed condemnation of Antinomics. The articles of the Methodist Epsage church have been constructed on the be the 59 articles, as well as those of many of ceclesiastical organizations of modern 🖛 The English church has from time to time cussed the question whether the 39 articles and Calvinistic or Arminian in their theology, also whether they teach the doctrine of tismal regeneration. Among other article faith, though not specially so designated, we be mentioned the Augsturg confession, the Helvetic confession, that of the church of the Netherlands, consisting of 57 articles, and the ward made the basis of the symbol are upon by the synol of Dort. Articles of the are by all Christian churches required to be either directly revealed in the Scripture of the church, or logically deducible from revelations, in order to be binding. revelations, in order to be binding. On tenets may be held by individuals, but are a

AlTICULATA, the third great division of the animal kingdom, in the classification of Co vier, and by him subdivided into 4 classes. Ob or naturalists have subsequently added 4 mm making the following 8 classes, of which 4 first 4 are those of Cavier:

- 2. A nucl ba, as leaches, earther owns, &=
 2. A nucl ba, as early, better a, prawis, shrings, &s.
 8. A rachada, as early shows only incoming a dec.
 4. Insects, as bestly in the all districts a dec.
 5. Myriopola, as entire des.
 6. Circhepola, as earlier in various as a sacretia.
 7. Rectifica, who leach appel animae lies, as anima.
 8. Entrops—lowest of the worms—parameter upon or

Each of these classes will be found treated the derits own name. The articulata may proper be ranked, upon the whole, as higher in the table. imal scale than the moliusca, althou this division, some species may be for highly organized than are some of the rad the 4th division of the series. For the ticulata possess a high development of the motive organs, in which the mollusca a ticularly deficient. The nervous system is so organized that it presents a sufficient acteristic for designating the group; at name homoganglists has been proposed by Owen as a substitute for that of articular having reference only to the external cos tion of the body in transverse rings, which is be of the soft skin, or integument, or else so in the form of a hard shell, so an external seton, to which the muscles are attached. arrangement of the nerves is a chain of h

englia, symmetrically disposed upon a dou-serd, which passes through the ventral re-of the body, and from each ganglion ner-filaments pass off to the different segments body. A nervous ring from the anterior of ganglia encircles the cosphagus. Filabe connect this with the organs of the senses, the esophageal ganglia have hence been rded as analogous to the brain in the higher rs. They are more and more concentrated animal occupies a more elevated position division, the members of the body being same time brought into closer connection. symmetrical arrangement of the nerves sug-that of the members also; and the limbs bund arranged in pairs, in the centipedes pair proceeding from one of the articula-sof the body. In the higher classes, as the tacea, the same symmetry of pairs of limbs erceived, and the connection of each pair a a segment of the body even when thorax, or body, needing no flexibility locomotive purposes, has its rings very rarely defined. The lower groups contain greater number of articulations, or rings, these are usually soft upon an elongated these are usually soft, upon an elongated
f, furnished, in most cases, with no true
Progressive motion is obtained by the ling of the flexible body in one and another ction, the muscles which effect this occupy-large portion of the body which in other mals is usually devoted more to the organs attrition and digestion. These, in the artica, are not so elaborate as in the mollusca. organs for respiration are much more highrganized, particularly in the insecta. In the breathing species the blood is aërated by be-In the to the action of the air introduced hin the body, the fluid being distributed in ities, or tubes, permeable to the air; the forappear to be analogous to lungs. In the culata is found the greatest diversity of as and habits of life. The largest animals he division are the lobsters and crabs of the staces; the rest are, for the most part, of oticed in the watery elements in which they und. In the few representations of the representations of the ses enumerated above are recognized ani-s which live in salt water and in fresh water, ers that sport upon wings in the air above surface of the earth; some that burrow beth and avoid the light of day, and others me haunts are within the bodies of other anh. Among so many varieties every mode rogression is met with, by swimming, crawlkipping, flying, &c., each peculiarly adaptto the circumstances in which the animal is sed, and altogether presenting, as before re-ized, a high development of the locomotive sns; and if any class, like the cirrhopoda, ap-r to be badly provided for in this respect, deficiency is found to be wonderfully made to them by the faculty they possess of at-ing themselves to floating bodies, and thus oming, though fixed to these, the greatest of

all travellers, being carried to all parts of the earth, and suffering no detriment though they pass from the warm waters of the tropical seas into the icy currents of the polar regions.

ARTICULATION, a term in anatomy, de-

noting the various modes of union between the bones of the skeleton. We may class articulations under 3 general heads, viz., movable joints, immovable joints, and joints of a mixed order, being somewhat movable, without much relative displacement of the contiguous surfaces. Movable joints are the most complex and variance. ous in structure; immovable, the most simple. Movable joints are common in the limbs, and the articulation of the lower jaw with the skull; immovable joints are common in the head and face and lower portion of the trunk; mixed forms of articulation are common in the spinal column and the upper portions of the trunk. The hinge-joints of the elbows and the knees, allowing free movements in one plane only, form one order of the movable class; the ball-andsocket joints of the hip and shoulder, allowing free movements in a circular direction, form a second order of the movable class; and different combinations of these 2 orders, as seen in the articulations of the lower jaw with the skull, of the hands and feet with the arms and legs at the wrists and the ankles, and also of the bones of the hands and fingers, feet and toes, form a third order of the movable class. The elbow-joint, in fact, is of a compound order, being of the hinge-joint form, with reference to the cubital movement of the forearm on the arm, and of the ball-and-socket form, with reference to the radial movement of the forearm on the arm, in what are termed the supination and pronation of the hand and arm. of immovable joints may also be subdivided into different orders and varieties. In the sacrum and the pelvis many bones which are distinct at first, literally grow together, in some subjects, so as to efface all trace of original separation, while in others traces remain visible of former separation and ulterior consolidation. In the cranium and the face there are numerous varieties of modes of junction between different bones connected by immovable articulation. The most prominent order of this class in the cranium is the serrated suture, the firmness of the union being increased by alternate notches, or indentations, and projections, like the teeth of a saw, formed on the edges of the bones, the teeth of the one being adapted to the indentations of the other. In this manner the bones of tions of the other. In this manner the bound the skull unite at the top of the head and in the centre of the forehead. In other cases be velled in this manner edges overlap each other, and in this manner the temporal bones are joined to the parietal bones of the skull. Another form of fixed arbones of the skull. Another form of fixed articulation is the ridge-and-groove, a ridge being formed on the edge of one bone and a grooved fissure in another to receive it. By this means the bony part of the septum of the nose is inserted into the floor of the nasal cavity to divide the nostrils, and thus form a double cavity of articulations contains very many varieties of adaptation. The mode in which the ribs are attached to the spinal column behind, and to the sternium in front, forms one simple order of the mixed class; the mode in which the vertebra are connected with each other in the spinal column, another, more complex; and the mode in which the slightly yielding portions of the pel-vic articulations are connected, a third and simple order of this class.—The movable articula-tions being the most complex in form and structure, will give the best idea of the various elements of an articulation; and the ball-and-socket join, being the most simple of this kind, will serve the purpose of a simple illustration. In the hip-joint we have a kind of ball, or rounded sirface, at the head of the thigh bone, which hemispherical surface is capped with a thin layer of cartilage, somewhat clastic in structure, and exceedingly smooth on its external surface. In the bones of the pelvis a socket is formed, exactly shaped for the reception of this hemispherical head of the Uizh home, and this socket is lined with a thin layer of dense, clastic, and polished cartilage, so that in the joint 2 polished surfaces meet together and al-low free movement, with the least possible amount of friction, but to lessen the effect of friction, and facilitate the movements of these surfaces one upon the other, a delicate membrane surrounds the external borders of the articular cartilages, and secretes a viscid fluid which lubricates the surfaces, preventing acthat contact and destructive friction of the car-tillaginous tissues. This lubricating fluid is technically called syr via, and the secreting membrane syrovial sac, or syrovial membrane. To prevent dislocation of the joint a strong rope of fibrous tissue, very similar in structure to that part of an oyster which cannot easily be removed from the shell connects the top of the ball with the bettorn of the socket, in a somewhat loese left very stro, gly attached manner. This is termed the round ligament. It is very this is termorate remoral ngament. It is very short and very strong. The enter surfaces of the ball and so ket met in the so ket, but not side care connected by means of a strong ligamenton band of filters tissue, bosely connecting the head of the there between with the pelvic better, on the outer rim of the socket, but strongly attached to the bones themselves, who hat hinds to getter finally, while permitting a considerable free lone of norden, or rotation, in the joint. In other joints of the movable class the outer light of their not always continnous and circular bands as in this case, but take the form of distinct fibrous ropes, strongly at-tioned to the bones, and forming strong, the able to its less strips of leather and to the tooky and to lid of a box serve as liganouts where there is nothinges. This dessection charges of the articlar edges and surfaces of loosing the great in goody of joints; strong there is, and die vible liganouts connect the bones. externally; and, where the joints are very movable, synovial membranes surround the lating surfaces, and the synovia which they crete lubricates the surfaces exposed to co-

friction, and mobility.

ARTIFICIAL HORIZON, a horizottaror, usually the surface of a basin of the reg. Half the angular distance between a storand its image, seen in the artificial horozon, sociadently equal to the altitude of the star a one the real horizon.

ARTIGAS, José, a South American born at Montevideo, in Uraguay, in 1760, Led in November, 1825. During the insurrection of the Spanish colonies of South America he held in his hands for a long time the fate of the new republic of Buenos Ayres. He was a firm a captain in the Spanish army, but on a cast of some difficulty with a superior officer, passed in 1811 into the service of the junta of library Ayres, and was intrusted with the communical a force with which he deteated the r army near Las Piedras. At the head of the guarlos, as are called the native earth drawn along the banks of the La Plata, he defeated the enemy in several encounters, and supported with vigorously the republican army which we pressing the slegge of Montevidge, that his offers procured an accommodation, between the cale net of Rio Janeiro and the government of Buenos Ayres. He, however, excited the sel-ous suspicions of Poeyredon, director of the junta, by whom he was declared outlawed and a price set upon his head. But the guarban flocked again to the standard of the reof the champion of republicanism, in a proto the centralized and monarchical government which it was the aim of Pocyredon to c-taken; and Artigus having defeated 2 arms - ward had been sent against him, obliged his treasure to code to him the whole of Unignity. He next carried his arms against the Portagos who had availed themselves of these disselves to get passession of Montevideo, and it rest them to negotiate. After various vicissisms of fortune, supported by the whole dem * rates party, he made a compact of Buen & Ayres # 1820. He found it difficult to support i made maid men of determined hostility and danger a conning, and, weary of the turmouls in whi an asylum in a Franciscan convent; first, i ever, having disarmed and sent back to their rural labors the wild hordes of whom his are had been composed. In this religious retre he terminated his stormy career a few year As a general, he was distinguihis bravery and great activity. He exerci absolute notherity over the guaches, who mode of life he had entirely adopted. Fro the time of his elevation to power, he despite all the enjoyments and conveniences of civ life. In his rude spirit there was a wonder power of will which acted almost irreseti upon the masses of men about him. The m tives of much of his political conduct are y veiled in mystery, and must be learned by

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of the contemporary documents. At he is but the shadowy though promiture of an obscure history.

ture of an obscure history.

LLERY. The invention of gunpowder, application to throwing heavy bodies application to throwing heavy bodies ren direction, are now pretty generally d to have been of eastern origin. In ad India, saltpetre is the spontaneous nee of the soil, and, very naturally, the soon became acquainted with its prop-Fireworks made of mixtures of this h other combustible bodies were mandate a very early posited in China and d at a very early period in China, and purposes of war as well as for public w. We have no information at what peculiar composition of saltpetre, suld charcoal became known, the explosive which has given it such an immense nee. According to some Chinese chron-tentioned by M. Paravey in a report to the French academy in 1850, guns nown as early as 618 B. C.; in other nown as early as 618 B. C.; in other Chinese writings, fire-balls projected smboo tubes, and a sort of exploding education of the described. At all events, the use of der and cannon for warlike purposes appear to have been properly develthe earlier periods of Chinese history, treat authenticated instance of their expension is of a data as late as 1839. application is of a date as late as 1232 and the Chinese, besieged by the in Kai-fang-fu, defended themselves amon throwing stone balls, and used a shells, petards, and other fireworks pon gunpowder.—The Hindoos appear some sort of warlike fireworks as the time of Alexander the Greek ac-to the evidence of the Greek writers Ctesias, Philostratus, and Themistius. saltpetre may have largely entered into osition. In the Hindoo laws some sort rms appears to be alluded to; gunpow-sertainly mentioned in them, and, ac-to Prof. A. N. Wilson, its composi-lescribed in old Hindoo medical works. the mention of cannon, however, coincity nearly with the oldest ascertained that of its occurrence in China. speems, about 1200, speak of fire-entrowing balls, the whistling of which and at the distance of 10 coss (1,500 About 1988 we read of fireworks on

About 1258 we read of fireworks on belonging to the king of Delhi. A lyears later the use of artillery was in India; and when the Portuguese arere, in 1498, they found the Indians as anced in the use of fire-arms as they was were.—From the Chinese and Hin-Arabs received saltpetre and fireworks. the Arabic names for saltpetre signify slt, and China mow. Chinese red and ire is mentioned by their ancient au-Incendiary fireworks are also of a date contemporaneous with the great Arabic of Asis and Africa. Not to mention the

maujanits, a somewhat mythical fire-arm said to have been known and used by Mohammed, it is certain that the Byzantine Greeks received the first knowledge of fireworks (afterward developed in the Greek fire) from their Arab energy than the greek of the Other Monard Greek fire). mies. A writer of the 9th century, Marcus Grac-chus, gives a composition of 6 parts of saltpetre, 2 of sulphur, 1 of coal, which comes very near to the correct composition of gunpowder. The latter is stated with sufficient exactness first of all European writers, by Roger Bacon, about 1216, in his Liber de Nullitate Magia, but yet for fully a hundred years the western na-tions remained ignorant of its use. The Araba, however, appear to have soon improved upon the knowledge they received from the Chine According to Conde's history of the Moors in Spain, guns were used, 1118, in the siege of Spain, guns were used, 1118, in the siege of Saragossa, and a culverin of 4 lb. calibre, among other guns, was cast in Spain in 1182. el-Mumen is reported to have taken Mohadia, near Bona, in Algeria, with fire-arms, in 1156, and the following year Niebla, in Spain, was defended against the Castilians with fire-ma-chines throwing bolts and stones. If the nature chines throwing bolts and stones. If the nature of the engines used by the Arabs in the 12th century remains still to be investigated, it is quite certain that in 1280 artillery was used against Cordova, and that by the beginning of the 14th century its knowledge had passed from the Arabs to the Spaniards. Ferdinand IV. took Gibraltar by cannon in 1808. Baza in 1312 and 1328 Martes in 1326 Alicante in 1881. took Gibraltar by cannon in 1808. Baza in 1812 and 1828, Martos in 1826, Alicante in 1881, were attacked with artillery, and carcasses were thrown by guns in some of these sieges. From the Spaniards the use of artillery passed to the remaining European nations. The French, in the siege of Puy Guillaume in 1888, had guns, and in the same year the German brights in Practice and them. By 1850 fire. had guns, and in the same year the German knights in Prussia used them. By 1850, firearms were common in all countries of western, southern, and central Europe. That artillery is of eastern origin, is also proved by the manufacture of the oldest European ordnance. The gun was made of bars of wrought iron welded longitudinally together, and strengthened by heavy iron rings forced over them. It was composed of several pieces, the movable breech being fixed to the flight after loading. The oldest Chinese and Indian guns are made exactly in the same way, and they are as old, or older, than the oldest European guns. Both European and Asiatic cannon, about the 14th century, were of very inferior construction, showing artillery to have still been in its infancy. Thus, if it remains uncertain when the composition of gunpowder and its application composition of gunpowder and its application to fire-arms were invented, we can at least fix the period when it first became an important the period when it first became an important engine in warfare; the very clumsiness of the guns of the 14th century, wherever they occur, proves their novelty as regular war-machines. The European guns of the 14th century were very unwieldy affairs. The large-calibred ones could only be moved by being taken to pieces, each piece forming a wagon-load. Even the

small-calibred guns were exceedingly heavy, there being then no proper proportion estab-lished between the weight of the gun and that of the shot, nor between the shot and the charge. When they were brought into posi-tion, a sort of timber framework or scaffolding was creeted for each gun to be fired from. The town of Ghent had a gun which, with the framework, measured 50 feet in length. Guncarriages were still unknown. The cannons were mostly fired at very high elevations, like our mortars, and consequently had very little effect until shells were introduced. The projectiles were generally round shot of stone, for small calibres sometimes iron bolts. Yet, with all these drawbacks, cannon was not only used in sieges and the defence of towns, but in the field also, and on board ships of war. As early as 1386 the English took 2 French vessels armed with cannon. If the guns recovered from the Mary Rose (sunk 1545) may serve as a clue, those first ship guns were simply let into and secured in a log of wood hollowed out for the purpose, so as to be incapable of cleva-tion. In the course of the 15th century, con-siderable improvements were made, both in the construction and application of artillery. Cannon began to be cast of iron, copper, or brass. The movable breech was falling into disuse, the whole gun being cast of a piece. The best founderies were in France and Ger-In France, too, the first attempts were made to bring up and place guns under cover during a slege. About 1450 a sort of trench was introduced, and shortly after the first was introduced, and shortly after the first breeching batteries were constructed by the brothers Bureau, with the aid of which the king of France, Charles VIII, retook in one year all the places the English had taken from him. The greatest improvements were, how-ever, made by Charles VIII, of France. He finally did away with the movable breech, cast his grits of brass and in one piece, intro-duced trainious, and guarantiness on wheels. cast his gittes of brass and in one piece, infro-duced transitions, and gun-carriages on wheels, and had none but iron shot. He also simplified the calibres, and took the lighter regularly into the field. Of these, the double cannon was placed on a 4-who led carriage drawn by 85 herses; the remainder had 2-wheeled car-riages, the trails dragging on the ground, and were drawn by from 24 down to 2 horses body of gunners was attached to each, and the service so organized as to constitute the first distinct corps of field artiflery; the lighter cali-bres were movable enough to shift about with the other troops during action, and even to keep up with the cavalry. It was this new arm which procured to Charles VIII, his surprising successes in Italy. The Italian or hance was still moved by balls ker the guns were still composed of several paces, and had to be removed on their frames when the position was reached; they fired stone shot, and were alto-gether so clamsy that the French fired a gun oftener in an hear than the Italians could do in The battle of Fornovo (1495), gained a day.

Italy, and the new arm was considered un-sistible. Macchiavelli's Arte della Guerra wa written expressly, in order to indicate news to counteract its effect by the skillal disposits of the infantry and eavalry. The successes of Charles VIII., Louis XII. and Francis I. continued to improve and lighten their field artilery. Francis organized the ordinance as a di-tinct department, under a grand-master of the ordinance. His field-guns broke the hathers invincible masses of the Swiss pikemen at Maranano, 1515, by rapidly moving from one flan-ing position to another, and thus they decided the battle. The Chinese and Arabs knew the use and manufacture of shells, and it is probable that from the latter this knowledge passed to the European nations. Still, the adoption of this projectile, and of the mortar from which a is now fired, did not take place in Europe is-fore the second half of the 15th century, and s commonly ascribed to Pandolfo Malatesta, ; 7.200 of Rimia. The first shells consisted of 2 hollow metal hemispheres screwed together, the and casting them hollow was of later invention-The emperor Charles V., was not behard be The emperor charges v_a was not estable and the introduced limbers, thus turning the rewwheeled gun, when it had to be moved, 2504 4-wheeled vehicle capable of going at a faster ace and of surmounting obstacles of Thus his light guns, at the battle of Rem. 1554, could advance at a gallop.—The first the oretical researches, respecting gunnery and the flight of projectiles, also fall in this period. Tartaglia, an Italian, is said to be the discovery of the fact that the angle of elevation of 43° gives, in rawa, the greatest range. The Spiards Collado and Ufano also occupied the selves with similar inquiries. Thus the 200 The spee retical foundations for scientific gunners was haid. About the same time Vannocci Bers goccio's inquiries into the art of casting (1540) roduced considerable progress in the manuture of cannon, while the invent. a of the calibre scale by Hartmann, by which every part of a gan was measured by its proportion to the diameter of bore, gave a certain standard is the construction of ordnance, and paved to way for the introduction of fixed theoretic principles, and of general experimental rules. One of the first effects of the improved artik was a total change in the art of fortification Since the time of the Assyrian and Babyloni monarchies that art had made but little progra But now the new fire-arm everywhere a breach on the masonry walls of the old sy and a new plan had to be invented. The fences had to be constructed so a little masonry as possible to the direct for the besieger, and to admit of a strong artifacion placed on the ramparts. The old mass fences had to be constructed so as to expuse a wall was replaced by an earthwork ram only faced with masonry, and the small flas town was turned into a large pentag bastion. Gradually the whole of the mass

by the French field artillery, spread terror over

fortification was covered against direct outlying earthworks, and by the middle 17th century the defence of a fortified mecame once more relatively stronger ie attack, until Vauban again gave the to the latter. Hitherto the operaloading had been carried on with owder shovelled into the gun. About the introduction of cartridges, cloth ntaining the prescribed quantity of pow-ich abridged the time necessary for loadd insured greater precision of fire by equality of charge. Another important on was made about the same time, that e-shot and case-shot. The construction guns, adapted for throwing hollow shot, shongs to this period. The numerous recurring during the war of Spain against therlands contributed very much to the rement of the artillery used in the defence back of places, especially as regards the mortars and howitzers, of shells, car-and red-hot shot, and the composition of ad other military fireworks. The calibres in the beginning of the 17th century were Il sizes, from the 48-pounder to the small conets bored for balls of 1 lb. weight.

of all improvements, field artillery was imperfect that all this variety of calibre paired to obtain something like the effect realize with a few middle-sized guns behe 6-pounder and the 12-pounder. The libres, at that time, had mobility, but no the large calibres had effect, but no mothe intermediate ones had neither the the intermediate ones had neither the r the other in a degree sufficient for all so. Consequently, all calibres were main and jumbled together in one mass, each consisting generally of a regular assortf cannon. The elevation was given to be a quoin. The carriages were still and a second to read a second to read a second to the carriages were still and a second to read a second to read a second to the seco and a separate model was of course re-for each calibre, so that it was next to ible to take spare wheels and carriages e field. The axletrees were of wood, and ferent size for each calibre. In addition a, the dimensions of the cannon and see were not even the same for one single there being everywhere a great many of old construction, and many differoff construction, in the several work of a country. Cartridges were still conguns in fortresses; in the field the cansloaded with loose powder, introduced wel, upon which a wad and the shot were added to the congular was consilly work. idown. Loose powder was equally workin the touchhole, and the whole process
tremely slow. The gunners were not
red regular soldiers, but formed a guild
r own, recruiting themselves by apprenind sworn not to divulge the secrets and ies of their handicraft. When a war out, the belligerents took as many of ito their service as they could get, over eve their peace establishment. Each of unners or bombardiers received the command of a gun, had a saddle-horse, and apprentice, and as many professional assistants as he required, beside the requisite number of men for shifting heavy pieces. Their pay was fourfold that of a soldier. The horses of the artillery were contracted for when a war broke out; the contractor also found harness and drivers In battle the guns were placed in a row in front of the line, and unlimbered; the horses were taken out of the shafts. When an advance was ordered, the limbers were horsed, and the guns limbered up; sometimes the lighter calibres were moved, for short distances, by men. The were moved, for short distances, by men. Ine powder and shot were carried in separate carts; the limbers had not yet any boxes for ammunition. Manœuvring, loading, priming, pointing, and firing, were all operations of great slowness, according to our present notions, and the number of hits, with such imperfect machinery, and the almost total want of science in gunnery, and the almost total want of science in gunnery, and the almost total want of science in gunnery, must have been small indeed. The appearance of Gustavus Adolphus in Germany, during the 80 years' war, marks an immense progress in artil-lery. This great warrior did away with the extremely small calibres, which he replaced, first, by his so-called leather guns, light wroughtiron tubes covered with ropes and leather. These were intended to fire grape-shot only, which thus was first introduced into field war-Hitherto its use had been confined to the fare. Hitherto its use had been confined to the defence of the ditch in fortresses. Along with grape and case shot, he also introduced cartridges in his field artillery. The leather guns not proving very durable, were replaced by light cast-iron 4-pounders, 16 calibres long, weighing 6 cwt. with the carriage, and drawn by two horses. Two of these pieces were attached to each regiment of infantry. Thus the regimental artillery which was preserved in many armies up to the beginning of this century, grose by superseding the old small calibred. ry, arose by superseding the old small calibred, ry, arose by superseding the old small calibred, but comparatively clumsy guns, and was originally intended for case shot only, though very soon it was also made to fire round shot. The heavy guns were kept distinct, and formed into powerful batteries occupying favorable positions on the wings or in front of the centre of the army. Thus by the separation of the light from the heavy artillary and by the formetical of army. Thus by the separation of the light from the heavy artillery, and by the formation of batteries, the tactics of field artillery were founded. It was General Torshenson, the inspector-general of the Swedish artillery, who mainly contributed to these results by which field artillery now first became an independent arm, subject to distinct rules of its own for its arm, subject to distinct rules of its own for its use in battle. Two further important inventions were made about this time: about 1650, that of the horizontal elevating screw, as it was used until Gribeauval's times, and about 1697, that of tubes filled with powder for priming, instead of working powder into the touchhole. Both pointing and loading became much facilitated thereby. Another great improvement tated thereby. Another great improvement was the invention of the prolonge, for manœuvring at short distances. The number of guns vring at short distances. The number of guns carried into the field during the 17th century,

was very large. At Greifenhagen, Gustavus Adolphus had 80 pieces with 20,000 men, and at Frankfort-on-the-Oder, 200° pieces with 18,000 men. Artillery trains of 100 to 200 gnns were of very common occurrence during the wars of Louis XIV. At Malphaquet, nearly 300 pieces of cannon were employed on both sides; this was the largest mass of artillery hitherto brought together on a single field of hitherto brought together on a single head of battle. Mortars were very generally taken into the field about this time. The French still maintained their superiority in artillery. They were the first to do away with the old guild system and enrol the gunners as regular soldiers. forming, in 1671, a regiment of artillery, and regulating the various duties and ranks of the Thus this branch of service was recognized as an independent arm, and the education of the officers and men was taken in hard by the state. An artillery school, for at least 50 rue state. An arthrety school, for at least of France in 1690. A hand-book of artilleristic science, very good for the time, was published in 1697 by Saint Remy. Still the secrecy surrounding the "mystery" of gamery was so great that many improvements adopte i in other countries were as yet unknown in France, and the construction and composition of every European artillery differed widely from any other. Thus the French had not yet a lepted the howitzer, which had been invented in Holland and adopted in most armies before 1700. Limber boxes for ammunition, first introduced by Maurice of Nassau, were unknown in France, and indeed but little adopted. The grin, carriage, and limber were too heavy to admit of their being encumbered with the extra weight of aumunition. The very small calibres, up to 8 lbs, inclusive, had indeed been done away 8 lbs, inclusive, had indeed been done away with, but the light regimental artiflery was unknown in France. The charges used in the artiflery of the times hitherto considered were for guns, generally very heavy; originally equal in weight to the bail. Although the powder was of inferior quality, these charges were still far stronger in effect than those now in use, thus they were one of the chief causes of the tremendous weight of the camon. To resist such charges the weight of a brass cannon was often from 250 to 400 times the weight of the often from 250 to 400 times the weight of the shot. Gradually, however, the necessity shell Gradianly, however, the necessity of lightening the guiss's supplied a reduction of the charge, and about the beginning of the 18th century, the charge was generally only ones-halt the weight of the shot. For mortars and howitzers the charge was regulated by the dis-tance, and generally very small. The child of the 17th and beginning of the 18th century was the terned in which the art are was in teast the period in which the art arry was in most countries finally morporated in the army, de-prived of its mediaval character of a good, recognized as an arm, and thus crabbed to take a more regular and rapid develope out. The consequence was an almost more frate and very marked progress. The irregularity and variety of calibres and models, the uncertainty of all

and unbearable. Accordingly, experiments were everywhere made on a large scale to assertant the effects of calibres, the relations of the calibre to the charge and to the weight and length of the gan, the distribution of metal in the cannon, the ranges, the effects of recoil on the carriages, &c. Between 1730 and 1740, Belider directed such experiments at La Fère in France Robius in England, and Papacino d'Anton a Turin. The result was a great simplification of the calibres, a better distribution of the metal of the gun, and a very general reduction of the charges, which were now between 1 and 1 the weight of the shot. The progress of scientific susnery went side by side with these improvement Galdeo had originated the parabolic theory. Torricelli his pupil, Anderson, Newton, Blonde Bernomilli, Wolff, and Euler, occupied then selves with further determining the flight of prejectiles, the resistance of the air, and the cases of their deviations. The above-named expen-mental artillerists also contributed materialy is the advancement of the mathematical person of grantery. Under Frederic the Great the Prussian field artillery was again considerably lighteteel. The short, light, regimental grant not more than 14, 16, or 18 calibres long and weighing from 80 to 150 times the weight of weighing from 80 to 150 times the wegged the shot, were found to have a sufficient rase for the lattles of those days, decided principally by infantry fire. Accordingly, the language had all his 12-pounders east the same proportional length and weight. The Austrans a 1753, followed this example, as well as most other states; but Frederic himself, in the latter part of his reign, again provided his reserve artillery with long powerful guns, he of their superior effects. Frederic the Great introduced a new arm by mounting the general of some of his batteries, and thus creating how of some of his batteries, and thus creating horse artiflery, destined to give the same support to cavalry as foot-artillery did to infantry. new arm proved extremely effective, and was very soon adopted by most armies; some, so the Austrians, mounting the gunners in separate wagons as a substitute. The proportion of guns with the armies of the 18th century was still very large. Frederic the Great l 1756, with 70,000 men 206 guns, 1769 with 67,000 men 275 guns, 1778 with 180,000 me 211 guns. These guns, with the exception the regimental ones which followed their is talions, were organized in batteries of visizes from 6 to 20 guns each. The regimental guns advanced with the infantry, while the latteries were firing from chosen position, and sometimes advanced to a second position, but here they generally awaited the issue of the lattle; they left, as regards mobility, still very much the health of the lattle. of the battle was due to the impossibility of bringing up the artillery in the decisive moment. The Prussian general, Tempelhof, she intro-

existing empirical rules, the total want of well-established principle, now became evident

inced field-mortar batteries, the light mortars being carried on the backs of mules; but they were soon again abolished after their uselesswere wour again appliance after their uselessmost had been proved in the war of 1792 and 1792. The scientific branch of artillery was, during this period, cultivated especially in Germany. Struensee and Tempelhof wrote useful works on the subject, but Scharnhorst was the leading artilleryman of his day. His head the leading artilleryman of his day. His handbook of artillery is the first comprehensive ally scientific treatise on the subject, while his hand-book for officers, published as early as 1787, contains the first scientific development of the tactics of field artillery. His works, though antiquated in many respects, are still chanical. In the Austrian service, Gen. Vega, in the Spanish, Gen. Morla, in the Prussian, Hoyer and Rouvroy, made valuable contributions to artilleristic literature. The French had tions to artilleristic literature. The French had reorganized their artillery according to the system of Valière in 1732; they retained 24, 16, 12, 8, and 4-pounders, and adopted the 8-inch howitzer. Still there was a great variety of models of construction; the guns were from 22 to 26 calibres long, and weighed about 250 times as much as the corresponding shot. At length, in 1774, General Gribeauval, who had served with the Austrians in the 7 years' war, and who knew the superiority of the new Prussian and Austrian artilleries, carried the introduction of his new system. The siege artillery was definitively separated from the field artillery. It was formed of all guns heavier than 12-pounders, and of all the old The French had from the field artillery. It was formed of all gans heavier than 12-pounders, and of all the old heavy 12-pounder guns. The field artillery was composed of 12-pounder, 8-pounder, and 4-pounder guns, all 18 calibres long, weighing 150 times the weight of the shot, and of a 6-inch howitzer. The charge for the guns was definitely fixed at one-third the weight of the shot, the perpendicular elevating screw was introduced, and every part of a gun or carriage was made according to a fixed model, so so to be easily replaced from the stores. Seven as to be easily replaced from the stores. Seven models of wheels, and 8 models of axletrees, were sufficient for all the various vehicles used in the French artillery. Although the use of limber-boxes to carry a supply of ammunition was known to most artillerists, Gribeauval did not introduce them in France. The 4-poundbottalion receiving 2 of them; the 8 and 12-pounders were distributed in separate bat-teries as reserve artillery, with a field-forge to every battery. Train and artisan companies were organized, and altogether this artillery of Gribeauval was the first corps of its kind esdribeauval was the first corps of its and catablished on a modern footing. It has proved superior to any of its day, in the proportions by which its constructions were regulated, in its material, and in its organization, and for many years it has served as a model. Thanks to Gribeauval's improvements, the French artillery, during the wars of the revolution, was su-perior to any other, and soon became, in the hands of Napoleon, an arm of hitherto unknown

power. There was no alteration made, except that the system of regimental guns was de-finitively done away with in 1799, and that with the immense number of 6-pounder and 3pounder guns conquered in all parts of Europe, these calibres were also introduced in the ser-vice. The whole of the field artillery was or-ganized into batteries of 6 pieces, among which one was generally a howitzer, and the remainder guns. But if there was little or no change in the material, there was an immense one in the tactics of artillery. Although the number of guns was somewhat diminished in conseof guns was somewhat diminished in consequence of the abolition of regimental pieces, the effect of artillery in a battle was heightened by its skilful use. Napoleon used a number of light guns, attached to the divisions of infantry, to engage battle, to make the enemy show his strength, &c., while the mass of the artillery was held in reserve, until the decisive point of attack was determined on: then enorse point of attack was determined on; then enormous batteries were suddenly formed, all acting upon that point, and thus preparing by a tremendous cannonade the final attack of the infantry reserves. At Friedland 70 guns, at Wagram 100 guns, were thus formed in line Borodino, a battery of 80 guns prepared Ney's attack on Semenovka. On the other hand, the attack on Semenovka. On the other hand, the large masses of reserve cavalry formed by Napoleon, required for their support a corresponding force of horse artillery, which arm again received the fullest attention, and was very numerously represented in the French armies, where its proper tactical use was first practically established. Without Gribeauval's improvements, this new use of artillery would have been impossible, and with the necessity for the altered tactics, these improvements gradually, and with slight alterations, found their way into all continental armies.—The British artillery, about the beginning of the French revolutionary about the beginning of the French revolutionary war, was exceedingly neglected, and much behind that of other nations. They had two regimental guns to each battalion, but no reserve artillery. The guns were horsed in single team, the drivers walking alongside with long whips. Horses and drivers were hired. The materiel was of very old-fashioned construction, and except for very short distances, the pieces could move at a walk only. Horse artillery was unknown. After 1800, however, when experience had shown the inadequacy of this system, the artillery was thoroughly reor-ganized by Major Spearman. The limbers were adapted for double team, the guns brigaded in batteries of 6 pieces, and in general those improvements were introduced which had been in use for some time already on the continent. No expense being spared, the British artillery soon was the neatest, most solidly, and most luxuriously equipped of its kind; great attention was paid to the newly erected corps of horse artillery, which soon distinguished itself by the boldness, rapidity, and precision of its manœu-vres. As to fresh improvements in the materick, they were confined to the construction of

the vehicles; the block-tail gun-carriage, and the ammunition wagon with a limber to it have since been adopted in most countries of the continent.—The proportion of artillery to the other components of an army became a little more fixed during this period. The strongest proportion of artillery now present with an army was that of the Prussians at Pirmasens—7 guns for every 1,000 men. Napoleon considered 8 guns per 1,000 men quite sufficient, and this proportion has become a general rule. number of rounds to accompany a gun was also fixed; at least 200 rounds per gun, of which \{\} or \{\} were case shot. During the peace following the downfall of Napoleon, the artilleries of all European powers underwent gradual The light calibres of 3 and 4 improvements. lbs. were everywhere abolished, the improved carriages and wagons of the English artillery were adopted in most countries. The charge was fixed almost everywhere at j, the metal of the gun at, or near, 150 times the weight of the shot, and the length of the piece at from 16 to 18 calibres. The French reorganized their artillery in 1827. The field-guns were fixed at 8 and 12 lb. calibre, 18 calibres long, charge 1 weight of metal in gun 150 times that of shot. The English carriages and wagons were adopted, and limber-boxes for the first time introduced into the French service. Two kinds of howitzers, of 15 and 16 centimetres of bore, were attached to the 8 and 12-pounder batter ies, respectively. A great sin licity distin-guishes this new system of field artillery. There are but 2 sizes of gun-carriages, 1 size of limber, 1 size of wheel, and 2 sizes of axletrees to all the vehicles used in the French field batteries. Beside this, a separate moun-tain artillery was introduced, carrying howit-zers of 12 centimetres bore.—The English field zers of 12 centimetres bore.—The English field artillery now has for its almost exclusive calibre the 9-pounders of 17 calibres long, weight 11 the 9-pounders of 14 campres long, weight 12 cwt. to 1 pound weight of shot, charge 1 the weight of shot. In every battery there are 2 24-pounder 51 inch howitzers. Six-pounder and 12-pounder guns were not sent out at all in the late Russian war. There are 2 sizes of the late Russian war. There are 2 sizes of wheels in use. In both the English and French foot artillery the gunners are mounted during manageuvres on the limber and ammunition -The Prussian army carries 6 and 12pounder guns, 18 calibres long, weighing 145 times, and charged with 1 the weight of the shot. The howitzers are 51 and 61-inch bors. There are 6 guns and 2 howitzers to a battery. There are 2 wheels and 2 axletrees, and 1 limber. The gon-carriages are of Gribeauval construction. struction. In the foot artiflery, for quick ma-nosuvres, 5 gunners, sufficient to serve the gun, mount the limber-box and the off-horses; the The amremaining 3 follow as best they can. munition wagons are not, therefore, attached to the guns, as in the French and British services but form a column apart, and are kept or range during action. The improved E range during action. The improved ammunition wagon was adopted in

The Austrian artillery guns, 16 calibres long, weighing 185 charged with I the weight of the she howitzers are similar to those of the I Six guns and 2 howitzers of service. battery.—The Russian artillery has 6 pounder guns, 18 calibres long, 150 th weight of the shot, with a charge of weight. The howitzers are 5 and 6-inch According to the calibre and destination. or 12 pieces form a battery, hich are guns, and the other half howi The Sardinian army has 8-pounder as which are pounder guns, with a corresponding howitzer. The smaller German armies 6 and 12-pounders, the Spaniards 8 as pounders, the Portuguese, Swedes, Dane gians, Dutch, and Neapolitans 6 and 19-ers.—The start given to the British artill lajor Spearman's reorganization, alon the interest for further improvement t awakened in that service, and the wide r offered to artilleristic progress by the menso naval artillery of Great Britain, contributed to many important invent by The British compositions for fireworks, a as their gunpowder, are superior to any and the precision of their time fuses is un led. The principal invention latterly a the British artillery are the shrapne (hollow shot, filled with musket balls, a ploding during the flight), by which the fective range of grape has been rendered to that of round shot. The French, and they are as constructors and organiz they are as constructors and organisms mearly the only army which has not yet at this new and terrible projectile; they not been able to make out the fuze contion, upon which every thing depends.—A system of field artillery has been proposed. Louis Napoleon, and appears to be in considerable adoption in France. The whole of the 4 c of guns and howitzers now in use, to be seeded by a light 12-pounder gun, 15; es long, weighing 110 times, and charge A shell of 12 reight of the solid shot. (the same now used in the mountain artill to be fired out of the same gun with a r charge, thus superseding howitzers i special use of hollow shot. The expen made in 4 artillery schools of Francers successful, and it is said the showed a marked superiority, The English, however, maint 9-pounder is superior in ran this new gun, and is in a the Russian gu this new gun, and it is to be were the first to introduce, b were the first to museum to abandon, a light 18-pounder I the shot's weight, and whice served Louis Napoleon as a modern to the served Louis Napoleon to the sian service, where, is

des nothing special has been published on its as in the late war, we cannot here be expected finally to judge on its merits.—The laws and experimental maxims for propelling solid, hellow, or other projectiles, from cannon, the ascertained proportions of range, elevation, -The laws charge, the effects of windage and other causes of deviation, the probabilities of hitting the mark, and the various circumstances that may corring warfare, constitute the science of gun-nery. Though the fact, that a heavy body projected in vacuo, in a direction different from the vertical, will describe a parabola in its light, forms the fundamental principle of this science, yet the resistance of the air, increasing it does with the velocity of the moving body, alters very materially the application of the parabolic theory in gunnery practice. Thus for guns propelling their shot at an initial velocity of 1,400 to 1,700 feet in a second, the line of flight varies considerably from the theoretic erabola, so much so that with them, the greatest range is obtained at an elevation of only about 20 degrees, while according to the parabolic 20 degrees, while according to the parabolic theory it should be at 45 degrees. Practical experiments have determined, with some degree of precision, these deviations, and thus fixed the proper elevations for each class of guns, for a given charge and range. But there are other circumstances affecting the flight of the shot. There is, first of all, the windage, or the difference by which the diameter of the shot must be less than that of the bore, to facilitate loading. It causes first an escape of the expanding during the explosion of the charge, in ing. It causes first an escape of the expanding gas during the explosion of the charge, in other words, a reduction of the force, and secondly an irregularity in the direction of the shot, causing deflections in a vertical, or horizontal sense. Then there is the unavoidable inequality in the weight of the charge, or in its condition at the moment it is condition at the moment it is condition at the moment it is comed, the eccentricity of the shot, the centre of gravity not coinciding with the centre of the sphere, which causes deflections varying according to the relative position of the centres at the moment of firing, and many other causes producing irregularity of results under seemingly the same conditions of flight. For seedinguns, we have seen that the charge of 1 the shot's weight, and a length of 16-18 field-guns, we have seen that the charge of 1 of the shot's weight, and a length of 16-18 calibres are almost universally adopted. With much charges, the point-blank range (the gun being laid horizontal), the shot will touch the ground at about 300 yards distance, and by elevating the gun, this range may be increased up to 3,000 or 4,000 yards. Such a range, however leaves all probability of hitting the however, leaves all probability of hitting the mark out of the question, and for actual and effective practice, the range of field-guns does not exceed 1,400 or 1,500 yards, at which distance scarcely 1 shot out of 6 or 8 might be expected to hit the mark. The decisive ranges, in which alone cannon can contribute to the issue of a battle are for round shot and shall issue of a battle, are, for round shot and shell, between 600 and 1,100 yards, and at these ranges the probability of striking the object is indeed far greater. Thus it is reckoned that at 700 yards about 50 per cent., at 900 yards about 35 per cent., at 1,100 yards 25 per cent. out of the shots fired from a 6-pounder, will hit a target representing the front of a battalion in column of attack (34 yards long by 2 yards high). The 9 and 12-pounder will give somewhat better results. In some experiments made in France in 1850, the 8-pounders and 12-pounders then in use gave the following results, against a target 80 metres by 8 metres (representing a troop of cavalry)

12-p'ders, hits, 64 p.ct. 500 met. 48 p.ct. 87 p.ct. 82 p.ct. 8-p'ders, "67" 44" 40" 28" 28"

Though the target was higher by one-half, the practice here remained below the average stated With field-howitzers the charge is considerably less in proportion to the weight of the projectile than with guns. The short length of the piece (7 to 10 calibres) and the necessity of firing it at great elevations, are the causes of this. The recoil from a howitzer fired under high elevation, acting downward as well as backward, would, if a heavy charge was used, strain the carriage so as to disable it after a few rounds. This is the reason why in most continental artilleries several charges are in use in the same field-howitzer, thus making the gunner to produce a given range by different combination of charge and elevation. Where this is not the of charge and elevation. Where this is not the case, as in the British artillery, the elevation taken is necessarily very low, and scarcely exceeding that of guns; the range-tables for the British 24-pounder howitzer, 2½-pound charge, do not extend beyond 1,050 yards, with 4° elevation; the same elevation, for the 9-pounder gun, giving a range of 1,400 yards. There is a peculiar short kind of howitzer in use in most peculiar short kind of howitzer in use in most German armies, which is capable of an elevation of from 16 to 20 degrees, thus acting somewhat like a mortar; its charge is, necessarily, but small; it has this advantage over the common, long howitzer, that its shells can be made to drop into covered positions, behind undulations of ground, &c. This advantage is, however of a doubtful nature essinct recycle ob tions of ground, &c. This advantage is, how-ever, of a doubtful nature against movable ob-jects like troops, though of great importance where the object covered from direct fire is immovable; and as to direct fire, these howitzers, from their shortness (16 to 7 calibres) and The charge, small charge, are all but useless. to obtain various ranges at an elevation fixed by the purpose intended (direct firing or shellby the purpose intended (direct firing or shelling), necessarily varies very much; in the Prussian field artillery, where these howitzers are still used, not less than twelve different charges occur. Withal, the howitzer is but a very imperfect piece of cannon, and the sooner it is superseded by an effective field shell-gun, the better.—The heavy cannon used in fortresses, sieges, and naval armaments, are of various description. Up to the late Russian war, it was not customary to use in siege-warfare heavier guns than 24-pounders, or, at the very outside, a few 32-pounders. Since the siege of

Sebastopol, however, siege-guns and ship-guns are the same, or, rather, the effect of the heavy ship-guns in trenches and land-defences has proved so unexpectedly superior to that of the customary light siege-guns, that the war of sieges will henceforth have to be decided, in a great measure, by such heavy naval cannon. In both siege and haval artiflery, there are generally found various models of guns for the same calibre. There are light and short guns, and there are long and heavy ones. Mobility being a nation consideration, guns for particular purposes are often made 22 to 25 calibres long, purposes are often made 22 to 20 cannots roug, and some of these are, in consequence of this greater let.2th, as precise as rilles in their prac-tice. One of the best of this class of gains, is the Prussian brass 24-pounder of 10 feet 4 inches or 22 calibres long, weighing 60 cwt.; for dismounting practice in a siege, there is no gun like it. For nest purposes, however, a length of 16 to 20 calibres is found quite sufficient, and as upon an average, size of calibre will be preferable to extreme precision, a mass of 60 cwt, of iron or gun metal wall be more usefully employed, as a rule, in a heavy 32pounder of 16-17 calibres long. The new long from 32-pounder, one of the finest guns in the British ravy, 9 feet long, 50 cwt, measures but 161 calibres. The long 68-pounder, 112 cwt., 16! calibres. The long 68 pounder, 112 cwt., pivot-gan of all the large screw 151 guneships, pivologian of a 1 the large series 151 gam-ships, measures 19 feet 10 inches, or a trifle more than 16 canibees; another kind of pivologia, the long 56 penaler of 98 cwt., measures 11 feet, or 17! calibres. Still a great number of less effective guns enter into naval armaments even now, bored up guns of merely 11 or 12 calibres, and carr mades of 7-8 calibres long. There is, however, mother kind of havallogian that was introduced about 155 years are gun that was introduced about 55 years ago by to noral Pa xhans, and has since received an inna use importance, the shell-gun. This kind of a frame has undergone considerable im-provement, and the French shell-gran still comes matest to fast constructed by the inventor; it has retained the cylindrical chamber for the charge. It the English service the chamber is ection a short trustum of a cone, reducing only Very socially the diameter of the bore, or there is no elecuber at all; it measures in length from 100 (10) allores, and is intended for hollow shot evel shows, but the long 6-sphrs, and 56-pairs, restricted alsove throw solid shot and shall a discrementally. In the U.S. navy Capt Parlaren has proposed a new system of shources, so maintage f short games of very large calcine (all and trinches here), which has been partly a lepted in the arrandom tof soveral new partly a lepted in the arrandom tof soveral new fixed so. The value of this system has still to be fixed by set an experience, which must deter-mine whether the tremendous effect of such cheffices shells can be obtained without the sarable of processed, which cannot but suffer the great co vate a required at long ranges. In some and maya, garnery, the charges are as yar as was the constructions of the guns themselves, and the ends to be attained. In laying

used, and these amount, with some very mass and solid guns, to one-half the weight of the shot. On the whole, however, one-tourne ma be considered a full average charge : r sa purposes, increased sometimes to one-th; minished at others to one-sixth. On board ship, there are generally 3 classes of charges to each gun; the high charge, for distant practes, chasing &c., the medium charge, for the average age effective distances of Laval engage mess; the reduced, for close quarters and decision satisfies. For the long 62-pdrs, they are equal to γ_{sc}^2 , i, and γ_s^2 of the shot's weight. For short light guns and shell-guns, these properties are of course still more reduced; but with the internation that the light guns the helicity that the start that the short the short that the short that the short that the short that the short the short that the short the short that the short that the short the short the short that the short the short that the short the short that the short that the short the short that the short the short that the short ter, too, the hollow shot does not reach to weight of the solid one. Beside guns and sal-guns, heavy howitzers and mortars enter an the composition of siege and naval arrang. Howitzers are short pieces intended to three shell at an elevation up to 12 or so degrees and to be fixed on carriages; mortars are sta-shorter pieces, fixed to to ks, intended to throw shell at an elevation generally exceeding 20 degrees, and increasing even to 60 degree Both are chambered ordnance; i.e. the comber or part of the bore intended to receive the charge, is less in diameter than the tight of general bore. Howitzers are seldom of a capbre exceeding 8 inches, but mortars are ten up to 13, 15, and more inches. The right of a shell from a mortar, from the smallness of the charges 1-20th to 1-40th of the weight of the stail, and from its considerable elevation, is less 1216 fered with by the resistance of the mr. and have the parabolic theory may be used in general calculations without material deviation from practical results. Shells from mortars are no tended to act either by bursting, and, as one casses, setting fire to combustible objects by the jet of flame from the fuzes, or by their weeks as well, in breaking through vanited at i other wise secured roofs; in the latter case the keeper elevation is preferred, giving the higher flight and greatest momentum of fall. from howitzers are intended to act, first by inpact, and afterward by bursting. From the great elevation, and the small initial velocity imparted to the shell, and consequent little reistance offered to it by the air, a mortar the its projectile further than any other had of ordnance, the object fired at being generally a whole town, there is little precision require and thus it happens that the effective range heavy mortars extends to 4,000 yards and ward, from which distance Sveaborg was barded by the Anglo-French mortar-boat The application of these different kinds of non, projectiles, and charges, during a such be treated of under that head; the use of artillery constitutes nearly the whole fights part of naval elementary tactics, and do therefore not belong to this subject; it the only remains for us to make a few observation on the use and tactics of field artillery.—Art

a breach in masonry, the heaviest charge

Is no arms for hand-to-hand fight; all its are concentrated in the distant effect of . It is, moreover, in fighting condition as aly as it is in position; as soon as it limp, or attaches the prolonge for a move-it is temporarily disabled. From both, it is the most defensive of all the 3 its powers of attack are very limited, for attack is onward movement, and its ating point is the clash of steel against. The critical moment for artillery is

the critical moment for artillery is re the advance, taking position, and getady for action under the enemy's fire. Soyments into line, its preliminary movewill have to be masked either by obstaground or by lines of troops. It will in a position parallel to the line it has to, and then advance into position straight the enemy, so as not to expose itself to ting fire. The choice of a position is a of the highest importance, both as regards but of the fire of a battery, and that of smy's fire upon it. To place his guns so cireffect on the enemy is as telling as possible first important point; security from the sfire the second. A good position must firm and level standing ground for the and trails of the guns; if the wheels do not swel, no good practice is possible; and if all digs into the ground, the carriage will be broken by the power of recoil. It beside, afford a free view of the ground, the enemy, and admit of as much liber movement as possible. Finally, the in front, between the battery and the must be favorable to the effect of our and unfavorable, if possible, to that of The most favorable ground is a firm well one, affording the advantage of rico-

ractice, and making the shot that go short the enemy after the first graze. It is rful what difference the nature of the I will make in artillery practice. On soft I the shot, on grazing, will deflect or irregular rebounds, if they do not stick I tat once. The way the furrows run in hed land, makes a great difference, espewith canister and shrapnell firing; if they rosswaya, most of the shot will bury elves in them. If the ground be soft, unag, or broken immediately in front of us, rel and hard further on toward the enewill favor our practice, and protect us is. Firing down or up inclinations of more is degrees, or firing from the top of one that of another, is very unfavorable. As safety from the enemy's fire, very small will increase that. A thin fence, scarceing our position, a group of shrubs, or orn, will prevent his taking correct aim. all abrupt bank on which our guns are will catch the most dangerous of his tiles. A dyke makes a capital parapet, a best protection is the crest of a slight stion of ground, behind which we draw us so far back that the enemy sees noth-

ing but the muzzles; in this position every shot striking the ground in front, will bound high over our heads. Still better is it, if we can cut out a stand for our guns into the crest, about 2 out a stand for our guns into the crest, about 2 feet deep, flattening out to the rear with the slope, so as to command the whole of the external slope of the hill. The French under Napoleon were extremely skilful in placing their guns, and from them all other nations have learnt this art. Regarding the enemy, the position should be chosen so as to be free from flauk or enflading fire; regarding our own troops, it should not hamper their movements. The usual distance from run to gun in line is The usual distance from gun to gun in line is 20 yards, but there is no necessity to adhere ground. Once in position, the limbers remain close behind their guns, while the wagons, in some services, remain under cover. Where the wagons are used for mounting the men, they too must run the chance of going into effective range. The battery directs its fire upon that portion of the enemy's forces which at the time most menaces our position; if our infantry is to attack, it fires upon either the opposing artillery, if that is yet to be silenced, or upon the masses of infantry if they expose themselves; but if a portion of the enemy advance to actual attack, that is the point to aim at, not minding attack, that is the point to aim at, not minding the hostile artillery which fires on us. Our fire against artillery will be most effective when that artillery cannot reply, i. e. when it is limbering up, moving, or unlimbering. A few good shots cause great confusion in such moments. The old rule that artillery, excepting in pressing moments of importance, should not approach infentry to within 300 yards or the in pressing moments of importance, should not approach infantry to within 300 yards, or the range of small arms, will now soon be antiquated. With the increasing range of modern muskets, field artillery, to be effective, cannot any longer keep out of musket range; and a gun with its limber, horses, and gunners, forms a group quite large enough for skirmishers to fire at, at 600 yards with the Minié or Enfield rifle. The long-established idea, that who wishes to live long must enlist in the artillery, appears to be no longer true, for it is evident that skir-mishing from a distance will in future be the most effective way of combating artillery; and where is the battle-field in which there could not be found capital cover for skirmishers within 600 yards from any possible artillery emplacement?—Against advancing lines or columns of infantry, artillery has thus far always had the advantage; a few effective rounds of grape, or a couple of solid shot ploughing through a deep column, have a terribly cooling effect. The nearer the attack comes, the more effective becomes our practice; and even at the enective becomes our practice; and even at the last moment we can easily withdraw our guns from an opponent of such slowness; though whether a line of chasseurs de Vincennes, advancing at the pas gymnastique, would not be down upon us before we had limbered up, must still remain doubtful.—Against cavalry, coolness gives the advantage to artillery. If the latter reserve their grape to within 100 yards, and then give a well-aimed volley, the cavalry will be found pretty far off by the time the smoke has cleared away. At all events, to limber up and try to escape, would be the worst plan; for cavalry would be sure to overtake the guns.—Artillery against artillery, the ground, the calibres the relative number of guns, and the use made thereof by the parties, will de-cide. It is, however, to be noticed, that though the large calibre has an undoubted advantage at long ranges, the smaller calibre approaches in its effects those of the large one as the ranges its effects those of the large one as the ranges decrease, and at short distances almost equals them. At Borodino, Napoleon's artillery consisted principally of 3 and 4-pounders, while the Russians exulted in their numerous 12-pounders; yet the French small pop-guns had decidedly the best of it.—In supporting either infantry or cavalry, the artillery will have always units a specified on its dash. If the always to gain a position on its flank. If the Infantry advances, it advances by half-batteries or sections on a line with the skirmishers, or rather in advance of it; as soon as the infantry masses prepare to attack with the bayonet, it trots up to 400 yards from the enemy, and prepares the charge by a rapid fire of ease shot. If the attack is repelled, the artillery will re-open its fire on the pursuing enemy until compelled to withdraw; but if the attack succeeds, its fire contributes a great deal to the completion of the success, one-half of the guns firing while the other advances. Horse artillery, as a sup-porting arm to cavalry, imparting to it some of that defensive element which it naturally lacks altogether, is now one of the most favorite branches of all services, and brought to high perfection in all European armies. Though intended to act on cavalry ground, and in com-pany with cavalry, there is no horse artiflery in the world which would not be recomhop across a country where its own cavalry would not follow without sacrificing its order and cohesion. The horse artiflery of every country forms the boldest and skilfullest riders of its forms the beldest and skilfullest riders of its array, and they will take a particular pride, on any grand field-slay, in dashing across obstacles, gims and all, but rewhich the cavalry will stop. The tarties of horse artillary consist in boldness and coefficies. If a pility, saddenness of appearance, quickness of tire, readmess to move off at a moment's notice, and to take that road which is too dafficat for the cavalry, these are the chart quarties of a good horse artillary. Choice of pistic a there is but latte in this constant charge of piness, every too tion is good so as or pesson into the is not lattice in this constant change of places, every position is good so as it is close to the enemy and out of the way of the earlieve and it is during the obling and flowing of cavalry engagements, that the artif-lary, skirting the advantagement receding ways, has to show every moneral tree days waves, that to show every moneral its superior bessettians, par I presence of tend in getting clear of this screens is a netoss all sorts of ground so range a notess all sorts of ground not every evalry dates, or likes to fol-la the attack and detence of posts, the tactics of artiflery are similar. The principal

which, in defence, threatens the nearest and which in defence, threatens the nearest and our advance can be most effectually checked. The destruction of material obstacles also forms that various calibrations are the various calibrations. part of its duties, and here the various rall and kinds of ordnance are applied according to their nature and effect; howitzers for setting fire to houses, heavy guns to batter down cate. walls, and barricades.—All these remarks apply to the artillery which in every army is attack to the divisions. But the grandest results a obtained by the reserve artillery in great and decisive battles. Held back out of sight and out of range during the greater part of the day, out of range during the greater part of the day, it is brought forward in a mass upon the day, sive point as soon as the time for the final start has come. Formed in a crescent a mile or mass in extent, it concentrates its destructive from upon a comparatively small point. Unless as equivalent force of guns is there to meet it, has a basely small figure souther the meet in his an hour's rapid firing settles the matter. enemy begins to wither under the hadstorm d howling shot; the intact reserves of infanty advance—a last, sharp, short struggle, and the victory is won. Thus did Napoles a preparameter of the structure of a column had fired a shot or crossed a layer And since those great days only can the taction of field artiflery be said to exist.

ARTNER, Maria Thenese von, a German poetess, born at Schnitan, Hungary, April 18, 1772, died at Agram, Nov. 25, 1829. After the death of her father, who occupied a high position in the Austrian army, she resided for a time at Vietna. White at Vietnas, she figured in secrety as a sort of Madame de Stael on a small scale. She was a lady of great intensity of feeding, and her poetical works are more remarkable for emotional power and poetic sentimentality than for intellectual force or artistic taste.

ARTOIS, once a province of France, now

emotional power and postic sentimentality than for intellectual force or artistic taste.

ARTOIS, once a province of France, now part of the department of Pas-de-Caian.

Arras was its capital. Artesian wells derive their name from Artois. In the 8th contrary it was invaded by the Vandals, and schengently by the Franks, who ruled over it till A. D. 863.

ARTOT, Joszen, a celebrated Belgian violing.

ist, born at Brussels in 1815, died at Paris, July 20, 1845. When a mere child, he was able to execute very difficult pieces on the violis. In the Conservatoire at Paris, he won, at the apof 13, the first prize for violin playing. After travelling all over Europe with market success, he associated himself in 1843 with M'dme Dumereau, a gifted French singer, and they embarked for the United States, where they met with a flattering reception. Although Ole Bull and Vieuxtemps were in America at that time, Artot had his full share of success. His parsonal appearance made a favorable impresses, while the neatness, elegance, and purity of his execution, and especially the melancholy confi-

which he imparted to music, secured for he sympathy of the fairer sex, as well as alden opinions of the critics. On his reto Europe, his health, which had always seeble, failed rapidly, and he died at the

**TOTYRITES (Gr. apros, bread, rupos, e), a sect of the Montanists who flourished and century. They communed with bread heese, instead of bread and wine; hence

tTS, THE FINE. See ART. E, baccalaureus artium (B. A. or A. B.), and magister, master of arts (A. M. or M. A.), university degrees conferred under that in Great Britain and America. The of these degrees is undoubtedly Italian French. In modern France the first degree ponding to the bachelor of arts, is bachee lettre , and the second corresponding to

naster of arts is licencic. Previous to the ution of universities in the 11th and 12th ries, the only academical distinction was imple one of master and pupil. It should id, however, that Cazenius II., by the 34th of a council held at Rome A. D. 826, ions the appointment of magistri and doc-

They were synonymous terms, and this sen held by some to mean masters of arts loctors of divinity; but the better opinion at these magistri and doctors were only pogues. The whole number of arts taught e universities of the middle ages was 7, ly, the trivium, consisting of grammar,

and rhetoric, and the quadrivium, communication and rhetoric, and the quadrivium, communication and an ending music, arithmetic, geometry, astronthese are the original artes, whence modern British and American graduates their titles. Artidoctor and artista are at names for masters of arts. In the unity of Paris the first degree conferred was of artists. Gregory IX., who occupied the I throne from 1227 to 1241, first instituted nerior order of bachelors, about the derin of which name the best opinion is that it es from bacilla (little staves), either because scholars were admitted to their degree by iving a little staff, or because they were sed to the raw recruits for the militia who called bacillarii, because they practiced sticks in order to gain a knowledge of the the steel weapon. There is no doubt of the steel weapon. There is no doubt both of these degrees of arts were conferred ford, in their present form, in the time of y III., in the middle of the 13th century. It in his "History and Antiquities of the Unity of Oxford," quotes the commentary of a in Whetley upon Boëthius, written in the in Whetley upon Boëthius, written in the of Edward I.: "When the said bachelor created master, the chancellor gave him badges with very great solemnity, and add him into the fraternity with a kiss on aft cheek, using these words: En tibi nia honoris tui, en librum, en cuculan pileum, en denique amoris mei

pignus, osculum; in nomine Patris et Filii et Spiritus Sancti. In the British and American Spiritus Sancti. In the British and American universities, speaking generally, a course of 3 or 4 years at the university and the undergoing an examination, are required as conditions precedent to the degree of bachelor of arts. The degree of master of arts is conceded without any further examination, an interval of without any further examination; an interval of 2, 8, or 4 years only being required, and the payment of a fee. In Great Britain bachelors of arts generally take their master's degree, but in America, owing probably to the smaller amount of consideration paid to merely nominal distinctions, this formality is more neglected than made use of.

ARUNDEL, BLANCHE, the daughter of Lord Worcester, and countess of Arundel, died in 1669, aged 66. With only 25 men she defended Windsor castle against 1,300 of the parliament-ary troops, and finally made an honorable surrender, the conditions of which were disgracefully broken by the victors. Her tomb is in the chapel of the castle. ARUNDELIAN MARBLES. These mar-

bles derive their name from Thomas, earl of Arundel, under whose auspices they were discovered by William Petty. They are also called Parian marbles, after the town of Paros, called Parian marbles, after the town of Paros, where they were supposed to have been found, and are occasionally referred to as Oxford marbles, from the fact that in 1667 the collection was presented to the university of Oxford. This collection, consisting of ancient statues, busts, mutilated figures, altars, sarcophagi, &c., arrived in England in 1627. They are described with great accuracy in Bockh's Corpus inscriptionum Gracarum (Berlin, 1843). The most interesting relic of antiquity included in this collection is the celebrated inscription called the Parian Chronicle, or Marmor Chronicon, a long, oblong slab of marble, on which was engraved, in capital letters, a chronological account of the principal events in Greece, and particularly Athenian history, from Greece, and particularly Athenian history, from Cecrops, 1582 B. C., to the archonship of Diognetus in 264. In the times of Charles I. the marbles suffered much injury, especially the chronological marble. The authenticity the chronological marble. The authenticity of the Parian Chronicle has been called in question by the Rev. I. Robertson, in his dissertation on the subject, published in 1788, and by others, but has been vindicated by many of the most learned men, particularly by Pro-

fessor Porson. ARUNS, an Etrurian name for the younger sons of royal or noble houses, while the elder

was named Lucorno.
ARUSINI CAMPI, the Arusian fields, the ARUSINI CAMPI, the Arusian heids, the scene of the last engagement between Pyrrhus and the Romans, were probably a tract of plain country, beginning within 2 miles of the city of Beneventum, lying along the river Calor, and traversed by the Appian way. They have been placed by some writers in Lucania, but the best authorities agree in placing the scene of the action near Beneventum. ARVIEAGOUS a Bernst king who reigned about A for the Was Not cross-over classed us, but we set to be followed that the following the pressent the season William control of the first treated will be a letter of the first of the second of Williams of the second of Williams of the second of

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lards of the Indus between the Himalayses. Hims a five state the Vibilityan, and the country in the mountains at the north, called in Subscrit Apple Virtuits and fine brave, which lither the set and the Vinityan, and the comtry in the mountains at the north, called in
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the Hind was south of the Himalayas and
about the Indians could themselves Aryans extended
west and is still be the decreases, all the inhabitants were derived by the frontitude of the control of the first of the control of the

ses to the north-western tribes, to signify they were not ruled by kings. In the writings the Aryans are a people chosen protected by Ormuzd. Their history disers in the remotest and darkest night of More than 23 centuries before the Chris-

, these western or Zend Aryans over-The Semito-Cushitic empire founded by or Zohack. They established a new one ding from the Indus to the Mediterranean times making inroads and devastating m. These depredations, according to some rians, provoked the Trojan war. The ma, who for a time ruled over lower Egypt, expelled therefrom and migrated toward rest, are supposed by some to have been us. The great Aryan empire to which is succeeded, or of which he was himself a rer, or continuator, was never really depend but through various transformations and itudes continues as the Persian kingdom to The tribe of Siahposh in the mouns of the Himalayas and that of the Ossets casus, are supposed to be the direct and ulterated descendants of the primitive ma.—The ABYAN LANGUAGE, either as the or as the substratum of the existing tongues, ads from the Ganges to the Atlantic ocean,

the southern region of the Himalayas to a from Zealand to Sicily, and over the new world. Its principal branches are:

be Sanscrit, or the Hindoo. II. The Zend, be tongue of the land of Iran. III. The k, Latin, or Thraco-Pelasgian. IV. The latin, or Thraco-Pelasgian. IV. The Lithuanian, and possibly even very atly the Iberian or Basoue, as the primitive

atly the Iberian or Basque, as the primitive ins were either a branch of the Celts or descendants of the Hyksos. The great logical prominence of this primitive languages are in its peculiar flexibility and viy, by which through more than 45 centuit has formed the vehicle for the mental lopment of our race. It has had the power ontinually regenerate itself and to bring new linguistic creations out of what was used and breeking to places. It is most yed and breaking to pieces. It is most nonious with the ever progressive spirit of It extends over the greatest geographical and in its varied scientific and artistic depment, forms the most perfect and richest ly of languages on earth. In the languages ng from the Aryan, the mental culture of numan species has been best advanced, and

RZACHEL, or ARZAHEL, a Jewish astron-r, a native of Toledo, in Spain, lived in the century. He determined the apogee of mn by 402 observations, fixed the obliquity so zodiac at 23° 34′, was the author of the ledo Tables," which served as the basis of famous Alfonsine tables, invented an as-omical instrument which bears his name,

instion by a chain reaching through thousands of years ascends to this

and devised an ingenious theory, which was afterward adopted by Copernicus, to explain the inequalities in the apparent size of the sun. His treatises, translated into Latin, are found in the principal libraries of Europe.

ARZAMAS, a town of Russia in Europe, capital of the district Arzamas, government Nizhnee Novgorod, at the junction of the Cheka and Tiosha; pop. 8,000. It is old and poorly built, and has 2 annual fairs.

AS, a Roman weight, equivalent to the libra of 12 ounces. The name is probably derived from \$\tilde{e}_{65}\$, one, or the unit. As was also a

from $\tilde{\epsilon}_{15}$, one, or the unit. As was also a Roman brass coin, originally an as in weight but reduced at successive times, until it weighed but half an ounce; stamped at first with the figure of a sheep, ox, or sow; afterward with the face of Janus, and a ship's prow.

ASAFETIDA, also called stercus diaboli and cibus decrum, a resinous gum derived from the root of the ferula asafætida, a plant which grows in the mountains of Persia. It is soluble grows in the mountains of Persia. A in alcohol and partially so in water. Its pecuin accord and partially so in water. Its peculiar property is its strong disagreeable odor and taste. This is in the volatile oil it contains and which may be separated by distilling the aqueous or alcoholic solution. Asafætida is employed in medicine as an antispasmodic. In hysterics, nervous diseases, chronic colds, and affections of the lungs, and for numerous other diseases, it is found to be a highly efficacious remedy. It is also made use of in Persia as a It is also made use of in Persia as a condiment for flavoring sauces and food. The leaves are eaten and the root is roasted for the

same purpose.

ASAHAN, or Assanan, a town and district on the north-east coast of Sumatra. The district is intersected by a river of the same name, has tin-mines in the interior, and a population of 70,000. The town lies on the river, about 20 miles from the straits of Malacca, and ex-

ports rice, rattans, dye-woods, and horses.
ASAMA-YAMA, a volcanic mountain-peak,
near the centre of the island of Niphon, in the

empire of Japan.

ASAPH (the assembler), the person appointed
by David as chorister in the musical services which he organized in connection with divine worship. The duty thus assigned him descended by a certain succession in his family, constituting them a kind of order (1 Chron. xxv. 1, 2) parallel vith the priesthood, though not equal to them in with the priesthood, though not equal to them in dignity or influence. Asaph is supposed to have composed some of the psalms in our canonical collection, as several of them bear his name. Kitto pronounces him a "master of didactic poetry, excelling alike in sentiment and diction." He was a Levite, and the son of Barachias. He is to be distinguished from 2 others of the same name mentioned respectively. others of the same name mentioned respectively

in Is. xxxvi. 3, and Neh. ii. 8.

ASAPH, Saint, a personage of whom very little is known. He was the bishop of a small see in North Wales, about 200 miles north-west of London, established about the middle of the 6th century by Kentigern, whom Asaph suc-

ceeded. The ancient cathedral, which was of The second one, wood, was burned down. more substantially constructed, was nearly de-stroyed during the wars of Glendwyr, but was repaired and afterward used as barracks in the parliamentary wars. A new cathedral now occupies the site. The location of the cathedral of Asaph is near the confluence of the rivers Clyde and Elwy, and between them.

ASBEN, in Africa. See Air. ASBESTUS, AMIANTHUS (Gr. anderros, unconsumable), a mineral of the hornblende family, which occurs in veins in the serpentine and other It is remarkable for its primary formations. primary formations. It is remarkable for his structure, which is that of parallel fibres like thread laid closely together. These are so flexible that they can be picked out and woven into cloth. The finer variety, which has the lustre of white satin, is called amianthus, from any constant fill. Chel. make the the primary. arros, undefiled. Cloth made of these minerals is not affected by any ordinary degree of heat, and may be thrown into the fire with no other effect than cleaning it. Such cloth was used by the ancients to wrap the bodies of illustrious by the ancients to wrap the bones of inistrious dead on the funeral pile for preserving in it their as-hes. A shroud of this cloth, containing burnt bones and ashes, was found in the Vatican at Rome in the year 1702. The material was long since applied in Milan to the making of firemen's dresses. The fibres are softened by firemen's dresses. The fibres are softened by steam, and the cloth made very coarse. We have the following interesting particulars of trials recently made with it for the same parpose in Paris; which it is the more desirable to record from the fact, that the mineral is abundant in this country, and on Staten island, in New York harbor, is found in bundles of fair a resambling slips of dry wood, some specimens furnishing these fibres of several feet in length. These trials commenced by 3 firmen, with their hands protected by amianthus gloves, carrying a bar of iron heated to whiteness some distance, and without losing their hold of it for more than 3 minutes. A fire of straw and small wood was lighted around a casting boiler, and when it was very hot a fireman, having his head protected by an amianthus hood and a notallic tissue, and bearing a wide shield upon his right arm, was placed in it, the fire being kept intensely hot while he remained. For a moment, his head was surrounded by the flame, but the shold served to keep it off. He remained it, this position to seconds, when the heat became the (durable). His pulse rose from 72 to 152. Another fireman repeated the ex-periment, protected by annualities cotton, and remained expessed to the direct action of the flavors open his head for 6 minutes, and 47 seconds. In another experiment, 2 long and high plies of worst and straw were creeted, with side operaises, through which the fremen could compe, it compelled to do so. The 4 men who were to enter the burning emboure were covcred with a new metallic fexture; 2 wore an amounts is garment over a dress of cloth, made theories stable by borax, alam, and phosphate

of ammonia; the other 2 had a double garment of prepared cloth, and each of them had am-anthus boots, with a double sole of the same substance. Finally, one of them carried a basis upon his shoulders, covered with meta... : a dressed likewise in amianthus. This metall tissue dress consists of a hood, the edges of which cover the shoulders and left sleeve, the right arm being protected by a sheld, and countains a fisterial be hooded. pantaloons fastened by hooks. Clothed with this armor and the habit of which we nave spoken, the fireman can run or steep early, and can turn readily by placing one kneet upon the ground. The 4 firemen thus artired pertrated to the centre of the flaming hest, as walking leisurely, went over it several transfer -In one minute, however, the child in the teraised a cry, which caused the firemen to treat precipitately. But it was found that he had suffered no harm; his skin was fresh and his pulse, 84 when he entered, had reached only 96. He could undoubtedly have remained much longer, had he not been frightened, for the fact that one of the straps holding the be ket to the man's shoulders having slipped a little, he saw the flames, and was arraid of far-ing. In a few minutes after he was as played ever, and experienced no inconvenies The pulse of the fireman who cap-ld rose from 92 to 116. The che whatever. ried the child rose from 92 to 116. The other 3 men were in the fire 2 minutes and 44 meonds, and came out without having expense any further inconvenience than great warms. Their pulses rose from 8s, 84, and 72 to 138, 138, and 124 respectively. The fire was very hot during the entire time. Asbestus has also been used for the lining of fire-proof sales and us a filter for chemical purposes. It is box-ever, in very little demand, though it is by so means a rare mineral in regions of prime rocks. Many localities in the United State furnish more beautiful specimens than are found at Staten Island, but nowhere perhaps is a subundant, or of as good a quality for weaving. The island of Corsica is noted for the excellent quality and abundance of this minera

ASBURY, FRANCIS a pioneer of America Methodism, and the first bishop of the committee in the United States. He was born tion in the United States. He was born in Handsworth, Staffordshire, England, in 1744 died March 31, 1816, in Virginia. He issue the local ministry of the Methodists at the ag of 16, the itinerant ministry 6 years later, was sent by John Wesley as missionary America at the age of 25, in company Wichard Wright. In 1772 he was appointed Wesley as general superintendent of the company was appointed. Wesley as general superintendent of the or nection in America, an office which he resign the following year in favor of Thomas Bank his senior in the ministry. But at the break his senior in the ministry. But at the break out of the American revolution, 2 years le Rankin, being a royalist, returned to England thus devolved the superintendency as on Asbury, the duties of which office he coised through the entire struggle which

n colonies an independent political existence. Latil the termination of the war, the Methodists America had considered themselves members of the church of England, and their ministers hymen. They now considered the political charges of the country as separating them from the church, and therefore organized by them—we have. Francis Asbury, ordained to the office by presbyters, was constituted the first bishop the new organization (1784), which office he The new organization (1784), which office he new organization (1784), which office held till his death, which occurred at the house George Arnold, in Virginia, in the 71st year his age, the 55th of his ministry, and the last of his episcopacy. During the 30 years of he spiscopal labors, he travelled annually from the Androecoggin to the gulf of Mexico, and the Atlantic to the Mississippi, and organization and less than 3.000 preachers, and the not less than 8,000 preachers, and reached about 17,000 sermons. He was truly man "in labors more abundant." Identified which the religious interests of this country brough the two great struggles which have so reatly modified our political and social character, he became eminently American in his yampathies and character, and has left the mark of his native enthusiasm and energy upon be ecclesiastical history of the United States. The remains are now deposited in a vault under be Eutaw street Methodist church in Balti-

ASCALON, a city of Philistia, and one of the satrapic seats in the time of the Judges. It Hes midway between Gaza and Ashdod, on the Mediterranean, 40 miles W. S. W. of Jerusalem. It fell within the territorial limits of the tribe of Judah, and was conquered by that tribe, but subsequently regained, and, until after the times of Amos and Zephaniah, maintained a partial independence. Ascalon with partial independence. Ascalon, with ecame an episcopal see in the 4th cen-**Ash**dod, b Ashdod, became an episcopal see in the 4th century, and has an important place in the history of crusades, until, by treaty between Richard and fleladin (1192), it was destroyed jointly by the linear filled up the port of Ascalon with stones, to prevent any further attacks by the crusaders. The wine of Ascalon is celebrated by Pliny—as are also the onions. The woes of the prophets on the 4 of the 5 satrapies of Philistia (Zech. in 6.4 Amos i 8) accurately represent the

in. 6; Amos i. 8), accurately represent the present condition of those cities.

ASCARIDES (Gr. ασκαρις), a term used by Hippocrates, and now applied to 8 kinds of warms which infest the intestines of man: the cormicularis, maw-worm or thread-worm, which infests the rectum, or lowest intestine; the tricocophalus dispar, or long thread-worm, found in the execum or upper part of the large intestines; the A. lumbricoides, or large round worm, mostly found in the small intestines.

These are not worms properly so called, but being to the order of entozoa, in the lowest types of animal life, the radiata. The body of the large round worm is long, elastic, and fusiform, or tapering at the two extremities; the anterior being somewhat obtuse and furnished

with 8 tubercles, which surround the mouth. It was formerly believed that each individual intestinal worm united in itself both sexes, but modern observations show that the 2 sexe distinct, in all the species of ascarides.

ANTHELMINTICS.

ASCENDING NODE, the point in a planet's orbit at which the planet passes to the north side of the plane of the earth's orbit.

ASCENSION. In astronomy, the right ascension of a heavenly body is its distance east of a line drawn from the pole of the heavens through the place of the sun at the vernal equinox. In other words, it is, among the stars, what longitude is upon the earth: and the first equinox. In other words, it is, among the stars, what longitude is upon the earth; and the first

point of Aries answers to Greenwich or Washington for fixing a first meridian.

ASCENSION, a south-eastern parish of Louisiana, with an area of about 420 square miles, consisting chiefly of an alluvial plain on both sides of the Mississippi river. A great part of the land is subject to frequent inundations, of the land is subject to frequent inundations, and is extremely fertile, particularly on the banks of the river. Sugar and maize are the principal staples. In 1850 the productions were 13,438 hogsheads of sugar, 554,975 gallons of molasses, and 368,500 bushels of Indian corn. There were 3 churches, 1 newspaper office, and 800 pupils attending public schools. Capital, Donaldsonville. Pop. in 1850, 10,752, of whom 7.266 were slaves.

7,266 were slaves.
ASCENSION DAY, a festival of the Roman Catholic and Episcopal churches, kept in commemoration of the ascension of Jesus, recorded by the evangelist to have happened on the 40th day after his resurrection. It is kept on Thursday, and the day is also called Holy Thursday. It has been observed at least since A. D. 68, and perhaps earlier. In the 5th century Managerty, bishop of Vienne instituted a 3 days? It has been observed at least since A. D. o., and perhaps earlier. In the 5th century Mamertus, bishop of Vienna, instituted a 3 days' preparation for this festival. They are the 3 days immediately preceding Holy Thursday, and are called Rogation days.

ASCENSION ISLAND, an island in the At-

lantic ocean, between Africa and Brazil, about 8 miles in length and 6 in width. It has a fort which stands in lat 7° 26' N. long 14° 24' W. It is of volcanic formation, mountainous, and was barren and uninhabited until the imprisonment of Napoleon at St. Helena, when it was occupied by a small British force, who have continued to cultivate and improve it. Its shores supply a vast number of turtles. It serves as a depot for ship's stores and a watering place for

ships

ASCETIC (Gr. ασκηται, wrestlers, or athletæ; and ασκησις, exercise), a word commonly used by the Greeks to signify the exercises of the athletæ during the course of training and preparation for athletic sports and trials of strength. paration for athletic sports and trials of strength. These exercises were intended to inure the body to hardships, and prepare it for displays of force by strict rules of diet, as well as bodily exercises: all excesses of eating and drinking were carefully avoided; all indulgence was forbidden; and abstinence from sexual relations was enjoined.

r, a nost which obliged

The term was also applied to those who practised austere rules of virtue. The habits of chastity, poverty, fasting, watching, and retirement practised by the Pythagorean and Stoic philosophers, to train their minds and bodies to hardship and privation, were called askesis, or training exercise. Various orders of gymnostraining exercise. Various orders of gymnos-ophists in Asia and East Africa, were ascetics, who like the present Sanyasseans, Talopoins, and Bonzes, in eastern Asia, exercised their in-genuity in devising methods of self-torture. Among the Jews, the Nazarene Essenes were ascetics. According to Eusebius (Hist. Eccles. ii. c. 23), James the Just, the brother of Jesus, was an ascetic in Jerusalem, before the destruc-tion of that city. The Christians in the 1st tion of that city. The Christians in the 1st century, were more intent on purity of morals, than ascetic exercises. In the 2d century they began to make distinctions between the commands given to all believers, and the advice given to those who aimed at the higher degrees of evangelical purity. The ascetics among Christians, were divided into abstinents and continents. The former abstained from wine, meat, and agreeable food; the latter abstained, moreover, from matrimony, in order to attain to a higher degree of sanctity. Many laymen were ascetics in the early centuries of the Christian era, without retiring altogether from the business of life. Some of them were the pallium philosophicum or philosophic mantle, and were called Christian philosophers. They formed a transition to the life of hermits and monks, which was regulated by the formation of monastic orders, in the 4th century.—Ascerno Theology is the science treating of the practice of the theological and moral virtues and the coun-sels of perfection. Ascetic virtue consists in the sels of perfection. Ascetic virtue consists in the practice of the maxims of ascetic theology, especially such as require great effort and self-denial. ASCHAFFENBURG, a city of Bavaria, on the river Main, which at Aschaffenburg is crossed by a handsome stone bridge. It has a fine palace, formerly the residence of the electors of Mentz. Pop. 8,400.

ASCHAM, Rooke, an eminent English scholar, born in Yorkshire, 1515, died Dec. 30, 1568. This man, who has acquired renown, not only for his own abilities but from his illustrious pupils, Queen Elizabeth. Lady Jane Grev. Edward

pupila, Queen Elizabeth, Lady Jane Grey, Edward VI., the Brandons, dukes of Suffolk, and other great and honored persons, was of lenarentage, and was brought up by the lenarentage, and was placed at Jenarentage, college, Oxford, where his diligence and this degree and a fellowship in March 1534 a tion, especially to the Greek language, games nim his degree and a fellowship in March, 1584, a small preferment, which, however, made him no longer dependent on his friend and patron, Sir Anthony Wingfield. Ascham early embraced Protestant principles. In 1587 he became a college tutor, and was appointed by versity to read Greek in the public When Henry VIII. founded a Greek made university
him to par an analysis and which complimentary
men. For this his elegant Latinity and the
ful accomplishment of very beautiful
ship, particularly qualified him. In life
cham was summoned to the appoint
teacher of learned languages to the
beth, afterward queen. He can be
household for 2 years, when he quite
somewhat suddenly from a piece arms per
sons in her establishment. This description sons in her establishment. This discourse was long remembered by Elizabeth wor he, however eventually served at the ering. In 1550 he was appointed at the emperor Charles V., which appointed tained for three years, until the data ward VI., and the ambassadors recall this absence he travelled in Germany Italy, and wrote the results of his results of Beside his duties as secretary, he Greek with the ambassador, who was an estudent. On his return in 1552, he was re mended to Bishop Gardiner, who appointed I Latin secretary to the queen, and on the of Mary he was continued in his office by E or Mary ne was continued in a settle, who always required his series at a several hours each day. Notwithstandle emoluments of his places and his small and other sources of revenue, he appears to been in pecuniary difficulties at the time death. death, which was much lamented and queen declared "she would rather have the £10,000 into the sea than have lost Asche He wrote a small treatise on archery, int as a justification of his love for that was entitled "Toxophila" and was entitled "Toxophila" and to Henry VIII, who ordered him an pension of £10 for it. He also was "Schole-master," a treatise on the state of th w sters to Oxford during his absence are published entire, Oxford, 1703, 8vo, and be are published entire, Oxford, 1815, 8vo, with a Bence of the control of ب_ې ريا Johnson

HBACH, Joseph a German hie at Hocht, near Frankfort courts 29, 1801. After having complete at Heidelberg, and efficiented as peakfort, he was invited in 1842 to 1841.

A history in the university of B-times to hold. HERER G. RUTORN, a gallant S a, 1621, duel April 17, 1603, w is in the field, from a page gra-josition of a field-marshal, and i unt. In the campaign of 165 a Poland and Lithuania under the i mat. took a distinguished part.



ERSLEBKN, a circ n Prussia, in the Magdeburg, of sum 50,000 inhabitatown of the samename, with a popula-about 12,000, of whom about 10,000 are security, our whom about 10,000 are sta, worshipping in 5 churches, while the supposed of Roman Catholics, who have of their own, and of Jews, who meet agogue. The town presents a fair array is, charitable institutions, and hospitals. mess of the soil gives a preponderance
litural pursuits, but woollen and linen
tures, and other branches of industry,
some extent, especially potteries and
landactures, of which there are not less

all in a high condition of prosperity. the ruins of their castle, which was in 1140, are still in existence on the larg Wolfsberg.

271ADEAN VERSE, in Latin poetry of four feet: a spondee, 2 choriambi,

mbus, thus: r be taken as consisting of 4 feet and a **ノーーー** a spondee, a dactyl, and a cessura and

Māscēnās ātāvis ēdīti rēgibūs.

PIADES of BITHYMIA, an eminent who flourished at Rome in the early B. C. Having little scihe sought to attract public attention g the principles and practices of his maries, and by asserting that he had a simpler and more efficacious methting diseases. Food, bathing, and ex**ting** di ne arrest the progress of sickness. He s bestowed on his patients, and not less ble for flattering their prejudices and

their caprices.

Li, an ancient city of Italy, in the Ponlates, on the right bank of the Tronto, wast of the Adriatic. Pop. 18,000. It diadel, is well built, with a Jesuit's a massum, library, and a number of prilaces. Its harbor is defended by two will in free parted by coesting weeels.

nd is frequented by coasting vessels.

NIUS, PEDIANUS QUINTUS, a Roman d grammarian, the most eminent of ient commentators of Cicero, delivered estructions at Rome under the reign of He was a native of Padua, born a year refore the Christian era, and died at the b, during the reign of Vespasian. Livy ntilian were his pupils, and Virgil his and companion. Of his commentaries main several considerable fragments, re written with clearness and elegance, waluable light upon points of history ruities, and upon the forms of the Roman sourts, and popular assemblies. They are published in numerous editions, the which is that found in the 5th volume w's works, as edite by Orelli and Baiter. The text is marred by corruptions and in-terpolations, and the best critics regard a por-

tion of the commentaries usually ascribed to As-conius as the work of a later hand.

ASCUTNEY, an isolated granitic mountain on the boundary between Windsor and Weathersfield, Vermont. Its summit is 8,820 feet above tide-water, and 8,116 feet above the level of the Connecticut river. From its summit, which is much visited by tourists, is presented an extensive and beautiful prospect of the valley of the Connecticut.

ASEER, or Asir, an independent state of Arabia, on the borders of Hejaz, Yemen, and Nedjed. It is situated in the interior of Arabia, near the 18th parallel of north latitude, and includes several fine valleys. These extend about 80 miles, and are at an elevation of about 8,000 feet. The lower valleys produce the date, palm, and cotton. The higher, almonds, figs, apricots, and grapes. The people of Aseer are bigoted disciples of Abd-el-Wahab, by whom they were converted to Mohammedanism in the beginning of the lest contents.

beginning of the last century.

ASEERGHUR, or HASSER, a town in British
India, presidency of Bombay, district of Candeish, 12 miles north of Boorhanpoor. It has a

deish, 12 miles north of Boorhanpoor. It has a strong fort, well supplied with water.

ASELLI, or ASELLIO, GASPARO, one of the most eminent anatomists of his day, celebrated for the discovery of lymphatic vessels in the mesentery, was born at Oremona in 1581, and died in 1625. He came upon his discovery by pure accident, while dissecting a dog killed during the process of digestion. Aselli never spoke in public about his discovery, and one year after his death, in 1626, it was disclosed by some of his intimate friends. G. Hoffmann and Harvey at first confriends. G. Hoffmann and Harvey at first con-tested the discovery. Harvey had already tested the discovery. Harvey had already acquired universal fame, and Aselli was comparatively an obscure physician, but eventually Harvey was bound to acknowledge the merits of the new discovery. During the greater part of his life, Aselli practised at Milan. He was buried in the church of St. Pietro Celestina, where his friends erected a monument to him.

ASEN, in northern mythology, the most powerful if not the oldest race of the gods. They included 12 gods and the same number of goddesses, among the most renowned of whom were Odin, Thor, Baldur, Freyr, Frigga, Freyja, Idunna, Eira, and Saga. Their dwelling-place Idunna, Eira, and Saga. Their dwelling-place was Asgard, where was a splendid palace in which the council of the gods was daily held. Though this worship was native only to the tribes of Scandinavia, where it was celebrated in the poems of the Edda and in the popular songs, its influence extended throughout ancient Germany, and may still be traced in many German proper names. Thus the German names man proper names. Thus the German names of the days of the week, which through the Saxons became incorporated into the English language, are derived from this mythology.

ASGILL. I. John, an English lawyer, born about 1650, died in prison, in London, 1738, He made himself remarkable by his political

and religious opinions. In 1699 he was elected to the Irish parliament, but in consequence of the publication of his work, "The possibility of avoiding death, or an argument proving that according to the covenant of eternal life revealed in the Scriptures, man may be translated from hence into that eternal life without passing through death," London, 1700, was expelled from the Irish parliament, and his work publicly burnt in Dublin as blasphemous. On emigrating to England, he was elected member of the English house of commons, but was also expelled therefrom on the charge of atheism. Arrested for debt he passed the last 30 years of his life in the Fleet prison. II. Sie Charles, a British general, born about the middle of the 18th century, died 1823. He served in the American war and was taken prisoner at Yorktown. He was to have been put to death by way of reprisals, but was pardoned by Congress at the instance of the French government, and afterward served in Flanders and in Ireland.

afterward served in Flanders and in Ireland.

ABH, a name applied to 4 different genera of forest-trees. I. Frazinus (ppafis, separation; the wood being used for fences, or from the facility with which it splits), of the family elesces, Juss., dioccia diandria, L. polygamous, calyx minute, 8 to 4 cleft; cord deeply 4-parted or none. Stamens 2 to 4. Pistillate flowers: ovary superior, compressed; 2-celled, with 2 es each; capsule with a membranaceous lanceolate wing (samara), 1-seeded by abortion; seed pendulous. Most of the species are indigenous in N. America (more than 80° E. of the Mississippi), many in Europe, few in Asia (1 in Nepaul). Most are large trees, affecting the control point places. (1 in Nepaul). Most are large trees, allecting shady and moist places, banks of rivers, or marshes; they prosper less in barren and bleak localities. The wood of most species is tough and elastic, and is used by wheel-wrights, carriage-makers, ship-builders, for many purposes. The most important species are the following: P. acuminata (Americana, discolor, white A.); leaves pinnatifid, leaflets petiolate, oblong, 8 to 4 pairs and 1 odd one, acuminate, shining, entire or slightly toothed, glaucous beneath, downy when young; grows 60 to 75 feet high. Best woud of all. From Canada to Carolina; believed to be an antidote to snake poison. F. assobusito be an antidote to snake poison. folia (black, or water A.); leaves 7 to 9 pairs and 1 odd, s olate, rounded at base, olate, rounded at base, I smooth above, villous beneaus on vito 66 feet high. P. tomentous (puberowne, run he leaflets 7 to 9 pairs and 1; elliptic, i mearly entire, very long; petioles, and y branches downy. Good wood, more rethan that of the others. F. juglandiyo armali; (viridia, swamp A.); leaves very large, leaflets 4 pairs and 1; petiolate, ovate, serrate, glaucous beneath, pubescent on veins; a small tree, Michanx and Nuttall describe 7 more species and some varieties, among which F. que mentals (blue A.), of Tenn s and I sttaining 70 feet in 1 with vs and F. Oregene,

In 1 with excellent wood, though
Americana. On its leaves a Americana.

ides (Spanish flies), spreading a variety with dr eding smell. A variety with droo (weeping A.) is grafted on tall s verted into an arbor shading a smell) Orans (openos, mountainous), of Pinus orans L., flowering ash), of the with F., but of the class disadri L. calyx, 4-parted; corol, 2 or 4 ments long, ligulate stamen, insebarren filaments; stigma emarg winged, 1-celled, 1-seeded. Trees Leaves opp Asia and America. Asia and America. Leaves opposition pinnate; flowers in terminal or adille Grows in shady woods. Among ican species, O. dipetala and O. As most remarkable. In Europe, O. sexudes the manna, a sweet substitution of the control of the differs from sugar by not ferments and yeast. It is a purgative media sorts, the one whitish, which exarted from fissures in the bark, and anoth condensed from the juice issuin made in the tree; this is more can best manna is collected in Calabri Many species of fraxinus also y lilac and olive can be success the species of fraxinus and orr the species of traxinus and orana. It (its bark being supposed to be an abconsumption), of the fam. Permes icosandria 2-5 pentagynia. I., class the genus pyrus. Calyx tubulous, limb 5-parted; petals roundish; styldrupe closed, 5-celled, with cartilag tamen; cells 2-seeded. P. or R. tamen; cells 3-seeded. P. or & (mountain-ash); leaves pinnatifid; long, lanceolate, acuminate, somewicommon petiole very amooth; fis in terminal corymbs; fruit globoured, persistent almost all winter. northern States. Pyrus micross fruited), extends from N. York in smaller than the preceding; fruit gracuageia (rowan-tree) aucuparia (rowan-tree), 👓 of N. Europe; grows up to 25 feet; af being frost-bitten and kept

time. The fruit food to many bird which islands) is share. The fruit many and the flowers, in the state of the flowers, in the state of the flowers, in the state of the state

Ar

reod, &v.) of much regrained wood

SH, EDWARD, a London physician who died \$39, and whose name acquired celebrity its connection with the discovery of the mic battery, which became the basis for construction of the Voltaic battery. Ash minicated the result of his investigations to ander von Humboldt, who published them 797, accompanied with remarks of his on the irritability of the fibres. Various tific essays were, in 1790, contributed by lash to the "Speculator," a weekly London

H, John, an English Baptist divine, born 24, died 1779, was the author, beside some ious publications, of a dictionary of the ish language, and of an introduction to the Grammar, which passed through a mumber of editions. He also wrote a called the "Dialogues of Eumenes." At period he was coadjutor with Dr. Caleb as in the management of an academy at tol for the education of theological students is own persuasion. Subsequently, and until inco of his death, he was pastor of a contion at Pershore.

stion at Pershore iH-WEDNESDAY, the first day of Lent.

1 by the fathers of the church caput jejunii. in allusion to the fast, or dies cinerum, ash in allusion to the custom of sprinkling the with sahes. The name of the day is a orial of ancient manners. To roll onewith ashes. The name of the day is a orial of ancient manners. To roll onein the dust, to cover the head with
, was, in primitive times, a mark of
mud grief. A man who appeared with
cody, hair, and dress covered with dust,
unced by such exterior his mourning and
tion. Examples of this are frequent in
tions being mentioned in Joh the Kings tion. Examples of this are frequent in ture, being mentioned in Job, the Kings, rophets, and also the Gospels. David, to see the bitterness of his grief, says that to ashes like bread. In the first centuries hristianity, when public penance was im-l, ashes were cast upon the heads of those were condemned, and they were obliged and without the gate of the church, amid is in the interest in the interest in the interest in Roman i polic countries are a continuation of this The old linen of the altar ritive usage. fragments of consecrated wood are burned, the sales carefully collected. Before celebration of the mass, the priest in ming robes recites penitential psalms, solemnly blesses the sacred ashes. Then be faithful approach and prostrate themwhile the priest marks a sign of the cross the ashes upon the forehead of each of repeating each time the words of the sema pronounced upon Adam for his sin: ento, homo, quod pulvis es, et in pulverem teris: "Remember, man, that thou art and unto dust shalt thou return." The having thus listened to the sentence of a and each bearing upon his brow the proic ashes, return to their places. The somsonotony of the ceremony, the silence which

follows it, the confusion of all ranks and the humiliation of all pride which attend this common recognition of the transientness of human life and the fearfulness of destiny, render it one of the gravest and most impressive of all religious rites. It is the overture to 40 days of penitential mourning, and follows immediately the wild excitements of the carnival, the heroes of the delirious and clamorous follies of one day kneeling on the next in silence and contrition around the altar of the church; and thus the utmost frivolity and disorder of a worldly spirit, and Christianity in all its severity and sadness as the veritable law of a fallen humanity, stand in immediate contrast. The use of ashes is omitted by those branches of Protestantism which retain any observance of Ash-Wednesday. In the Anglican church the maledictions denounced against impenitent sinners are read on that day, at the end of each of which the people repeat, Amen.

ASHANTEE, a powerful kingdom of western Africa, on the gold coast, in upper Guinea, bounded on the N. by the Kong mountains, S. by the Atlantic, E. by the rivers Volta and Loka, and W. by the Assinie river. It extends from lat. 5° 0′ to 9° 80′ N., and from long. 0° 55′ E. to 4° 7′ W. From comparative obscurity, this kingdom, under its successive rulers, has become a considerable power in Africa, having conquered many of the surrounding tribes, seized upon their territories, and compelled their chiefs to pay tribute. Its history does not reach back further than the commencement of the 19th century, when it began to advance in influence and power under King Osai Tutu. In 1807, while Osai Tutu Kwamina was king, 2 of his tributary chiefs escaping to the Fantees; and when he sent messengers demanding that they should be delivered up, the people, instead of complying, put his messengers to death. Upon a repetition of this offence, the king of Ashantee advanced into the Fantee country, at the head of an immense army, destroying towns and villages, and slaughtering men, women, and children indiscriminately, burning up provisions, and desolating the entire kingdom. The Fantees were followed even to the large seaport towns, and butchered by thousands. The British in the fort of Anamaboe took sides with the Fantees, when the Ashantee army attacked that stronghold also, and would have exterminated the garrison, had not the English governor caused a flag of truce to be displayed. The king compelled Col. Torranne, the governor, to come to the Ashantee camp to adjust the difficulty. In the engagement at Anamaboe alone, it is estimated that 12,000 were slain. In 1817, the Ashantees invaded the Fantee country a third time, reducing the people to such straits for food, that the English authorities deemed it expedient to pay the fine imposed upon the Fantees by the king, to induce him to retire. The incursions into the Fantee country interrupting the

business of the European merchanta, the British resolved to send an embassy to the court of Ashantee to negotiate a treaty between the two countries. The treaty entered into stipulated that the monthly payment of 4 ounces of gold, by the English to the Fantees, as a rent for the ground on which the fort stood, should be transferred to the king of Ashantee, by right of conquest, and the governor formally and solconquest, and the governor formally and sol-emnly acknowledged that Fantee, including Cape Coast, and every other town in the neighhood, belonged exclusively to Ashantee, the African company reserving judicial authority over such towns as stood in the vicinity of any of the castles. It was further agreed that Mr. Hutchinson, a member of the embassy, should remain at Coomassie as British resident, to see that the terms of the treaty were complied with. The Fantees again rebelled against the king of Ashantee, and were secretly aided by the British, who were anxious for his over-throw. The king was preparing to attack the British again, for their interference, when Mr. Dupuis arrived from England, having been appointed consul to the court of Ashantee. After much difficulty he succeeded in negotiating another treaty, mutually advantageous; but the African company refused to confirm it. As the commander of the British squadron refused end the commissioners of Ashantee England, Mr. Dupuis had to set out alone with the treaty, to submit it to the British government for ratification, the king promising to refrain from hostilities for a certain period. Two months after the expiration of that time, Mr. Dupuis not having arrived, the king placed Cape Coast fort under blockade. About the same time the charter of the African company was abolished by act of parliament, and its forts and other possessions transferred to the crown. Sir Charles McCarthy, the newly appointed governor-general of the Gold Coast, misled by the Fantees, who wished to be emancipated from Ashantee rule, and in a great measure ignorant of the nature of the relations between the British and the Ashantees, resolved to chastise them. king of Ashantee, enraged at the hostile atti-tude of the English, and smarting under the inalts of the Fantees, made extensive preparations for war. Hustilities began by the seizure of a negro sergeant in the British service, by the Ashantees, who put him to death. The ki who put him to death. set out with a large army against and Sir Charles McCarthy, rashly garmy of seacoast natives, advanced without waiting for a reinforcement outroops, under Major Chisholm. Jan. 21, • G an engagement took place across a narrow water-course. Sir Charles kept up a heavy fire during the day; but his ammunition became exhausted, and the Ashantees tried to force their way across the stream. They pelled by the bayonet; but a p crossed higher up, intending to cultrest, attacked his force in the flank and cut them to pieces. Sir Charles They were æ

treated to where the k ing the enemy somev in the a field-piece to bear upon the Te s less, however, for they came on It whelming torrent, and the British and his officers, in attempting to r et by another party and inst Williams, his secretary, was taken corremained a prisoner for some time in Every night they locked him up in a re the heads of his companions in the wa aid that the chiefs ate Sir Charles's dried his flesh and parcelled it out a lower officers, while his bones we lower officers, while Coomassie as fetiches. After this vi Ashantees, content with their succ awaiting overtures for a peace. S engagements followed, however, with time, one of which, against the Englis Coast Castle, nearly resulted in sec-there is little doubt that the fort w with been captured, had not smallpox a compelled the king to withdraw his a timately he was overawed, and ec-send his son and his nephew to Os hostages, and deposit 600 ounces of the governor as security for his goo Despite these reverses and losse are still a warlike and powerful joying as much prosperity as any a in western Africa.—They are, as ceived by the preceding sketch, barous people, even among Africa but the abundance of their gold, the their kingdom, and their savage an wars, have brought them into promis e no military science, however in battle depending not upon their upon the savage bravery of the over masses of warriors and slaves, which ers or chiefs bring together for the country. The king is commande the country. The king is commander often leading the army in battle. An Caboosers are grades or ranks, more distributed in the field. As an in the capital than in the field. År en i their bravery, it is recorded that is after their last defeat by the Eng defeat by the English nor ed, or afraid of being degraded, to the win on kegs of powder in sight camp, and blew themselves to ment of Ashantee is a complete a king exercising absolute cost as and property of all classes.

A power, he naturally fears for its and in consequence keeps up see espionage all over the country, at act or word of disaffection is a d, or afraid of being degraded, th t act or word of disaffection i to him. When a subject to the king's presence, he embling, not knowing who be rewarded or beheade When a subject egal heir to all the property of at usually abstains from to unwrought gold found an

is, and distributed a friends, to the out of the king a summer of the king a summer of the his based on the summer of the summer the affair concluding with a feast to the of the family. Bowdish says that one man, he was at Coomassie, displayed gold orna-a equal to 1,600 ounces of gold, or \$28,000. hing is the great property owner, levying

s of 20 per cent. upon all manufactured

and a large percentage upon all gold
a from the mines. All taxes on trade, tribbem conquered provinces, and all the gold king him the wealthiest man in Africa. ary possible occasion he makes a brave shie way.—Slavery prevails in Ashantee These slaves each. cers taken in war, men degraded for mis-ce, and (by far the largest part) pagan ne-brought from the interior by their Mo-adan captors, and sold into bondage. meden ceptors, and sold into bondage.

• there was a free exportation of slaves to a countries, the slave trade was very pros-s here; but since its suppression along the set, slaves have accumulated very largely. Sistinction between master and slave is istinction between master and r becoming less marked; and the masare afraid to abuse their power, be-g that if they do, the slaves will ah them. Mr. Wilson knew many cases the slaves held a larger number of bondthan their own masters.—Polygamy is a rite institution, a man's importance being a according to the number of his wives. king is limited to 3,833, which, with the atlan of half a dozen, are dispersed to their tations during the working season. While the capital, they occupy 2 whole streets, but seededed from all but the king and his fewes. To see one of them even accio relatives. hed by a fine, and violent retaliation on part of the husband is regarded as mean egrading. The Ashantee wife is a menial, degrading. The Ashantee wife is a menial, selow her husband, ministering only to his ions, and providing for his wants. The except the population is difficult to determine; s been estimated at about 8,000,000, ining the tributary provinces, and 100,000 were said to have been slain in their hern wars. The capital, Coomassie, stands to 6° 51′ N. and long. 2° 16′ W., and population is variously stated by Eurosa at from 15,000 to 100,000. McQueen, is at from 15,000 to 100,000. Mcqueen, tie geographical survey of Africa, adopts latter estimate, after a careful common of the estimates of Bowdich, Du, and others. The soil is fertile, prong yams, Indian corn, sugar-cane, pota-

toes, plantains, bananas, and many kinds of tropical fruit. Cotton, indigo, and coffee are also raised in small quantities; but their culti-vation might be indefinitely extended. From the coast to 60 miles N. of Coomassie, the country is covered with a thick forest, through which travelling is extremely difficult, except by the paths or roads leading to the capital. The houses are built of clay, one story high, and thatched with grass. Their walls and The houses are built of clay, one story high, and thatched with grass. Their walls and doors are painted with a kind of chalk, and the outside of the doors and window-blinds often decorated with grotesque figures. The dwellings of the nobles and great men are built in a hollow square, into which the female apartments open; the roofs project over the sides fronting the street, under which there are fronting the street, under which there are lounges, and here the master of the house re-ceives his visitors. The Ashantees are mechanical adepts, and manufacture gold ornaments with much skill and taste. They also tan with much skill and taste. They also tan leather, make swords, pottery, agricultural implements, and cotton cloth, the latter of beautiful patterns and durable quality, weaving it in strips of 4 inches wide, on a loom worked by strings held between the toes. Their commerce with the interior is very extensive, caravans from Houssa, Bornoo, and Timbuctoo occasionally visiting the capital. The exports are mainly gold dust, in which the country abounds (10,000 slaves being employed during the rainy season at the mines on the banks of the Barra, collecting it), ivory, and the jura nut. The mines are very rich, but imperfectly worked; and many of the richest, being sacred to their fetiches, are left untouched. The Ashantees seem to delight in the shedding of blood, and human sacrifices are part of their religious observances. At the festivals of Yam and Adai,—the former commencing early in September, when the year agents and adainates the second of the country and the year agents are also and the second of the seco servances. At the festivals of Yam and Adai,
—the former commencing early in September,
when the yam crop is gathered, the latter occurring tri-weekly through the year,—human
blood constantly flows. In Ashantee at least 6
different languages, or dialects of the same language, are spoken, and the Ashantee tongue is
described as possessing superior euphony to
many of the native languages. The wild animals are lions, elephants, alligators, hyenas, antelopes, deer, and a variety of snakes; the domesticated are principally cown a small breed sticated are principally cows, a small breed of horses, goats, and a hairy kind of sheep. In or norses, goats, and a hairy kind of sheep. In ornithology there are vultures, parrots, and a variety of small birds of splendid plumage and melodious song. (See Wilson's "Western Africa,"New York, 1857.)

ASHBURNE, Thomas of, an English Catholic writer, born at Ashburne, in Derbyshire, and lived about the middle of the 14th century.

He wrote against the Inddle of the 14th century.

He wrote against the Lollards, and was the author of a treatise in reply to the Trialogus of Wioliffe. He also wrote a poem in English, with the Latin title De Contemptu Mundi.

ASHBURTON, a market town, and parish of England, county of Devon, and 192 miles W. S. W. of London. It has some woollen mills and returns one member for the house of com-

and returns one member for the house of com-

It is the birth-place of the celebrated Dunning, afterward Lord Ashburton, the critic and poet Gifford.

ASHBURTON, LORD. See JOHN DUNNING

Rea also BARING.

ASHBURY, JOSEPH, an English comedian born at London in 1638, died at Dublin, July 24, 1790. His first appearance as an actor was at Dublin, in the part of Iago, in Shakespeare's "Othello." He went to London, where he won much applanse as a comedian; returned to Dublin, and remained a star of the first magni-tude in the Irish theatre for the rest of his life. ASHBY DE LA ZOUCH, a town of Leic

ahire in England. Near it are the remains of a fine castle built by Lord Hastings, who was beheaded by Richard III. The town was gar-risoned in the civil wars of Charles I. by the king. Its greatest interest lies in its being the scene of the great tournament held in the reign of Richard L, which has been portrayed to the life in "Ivanhoe."

ASHDALAG, a large village of Russian Armenia. It lies on the south slope of the Alaghez mountains, and is surrounded by rich fruit garns, which flourish in a very mild climate. is occupied by a population exclusively

ASHDOD, a city of southern Palestine, lyag near the Mediterranean sea, a little north
ad east of Ascalon, and capital of one of the
satrapies of Philistia, after the death of
cabua, and the seat of the working of Dagon. It fell within the allotment of the tribe of Judah in the territorial division of Palestine, though it was some time before they obtained posses-sion of it, if indeed they ever did. We find that before the captivity the Jews had inter-married with the Ashdodites, for which Nehe-miah cursed them. When the Phil es were mish cursed them. When the P victorious over the Israelites in le of Ebenezer, they captured the ark us to and carried it to Ashdod, and set it ple of property the second before it, the second hands and head, so that left. The Greek manner in known in ole of Dagon, whose i مند Wice Ь مطه ું હીં ધ Asotus, and it is known in New Te tory as the place in which Philip is: d to have been a wl distely after we above 80 miles ununt fr transaction took place. 'anno a city at the present known in biblical go ms to have been a weu-fort an important military post, from the same the entrance of the Israelites upon the occ pancy of the territory to the days of Psammetipaney of the territory to the days of Fanniset-eus, who, according to Herodotus, laid siege to it for 39 years. It was also several times besieged, and partially taken by several other kings, as Uzziah, and Tartan, and the bean kings, who finally destroyed it. ing maintained a more or less successions independent of the several content. for independence since the days ot .

alt by the en G і пров 🐇 rosma emi around it like a wood, probably a that eminent traveller only a about 10 miles of it. It retain of its former greatness. The heavy thr. of its former greatness. The he need by Zachariah and Amos on and Ascalon, seem to find their l counterpart in the present miserable asserted condition of those cities; for at this there is no king in Gaza, Ascalon is a habited, and the pride of the Philistines off.

ASHE, a county forming the N. W. extity of North Carolina, bordering on Vir and Tennessee, area 600 square miles. In mountainous region, between the Blue Rid the S. E. and Stone mountain on the W has good graving portions, but is general productive. Organized in 1800; capital ferson; named in boner of Samuel Ask r governor of North Carolina; pop. 8 whom 8,182 are free, and 592 slaves. In 15 this county yielded 210,533 bushels of ac 6,164 of wheat, 161,487 of cats, 4,904 lbs. tobacco, 107,757 of butter, and 9,702 toos hay. It contained 28 churches.

hay. It contained 28 churches.

ASHE, Joux, an officer in the war of a American revolution, and an active state in the period of the formation of our ment, born in England in 1721, died in New Carolina, in October, 1781. He was a cold ween his father emigrated to America took up his abode in Newton, new Wilmington, the hank of the Caron Francisco. took up his abode in Newton, now Wilmi on the bank of the Cape Fear river, in Carolina; and there he desared his edu-and grew to manhood. He was premin the politics of the colonies prior to the of stamp set, having been several a resentative in the colonial assemb esentative in the colonial assemble body he was speaker from 1762 to amp act called forth his vigorous, but he at first hesitated to falle position measures which the real action of the colonists suggested, as ive in resisting the regulator moves party as the stamp act of the equently he joined with the most attention of the colonists and because which it is said, he was advocate of republicanism. He is suggest, and in which he was advocate of republicanism. He is may at the first outbreak of he is and as brigadler-concrat he took prements of Lincoln on the Savanual 1771. In the latter was he 8 re Whi The

1740. venerate of Lincoln on the San and 1770. In the latter year he so defect at the hands of Geo. Prevoketh. He was made a prisoner in leased on parole on account of sick at soon after. H. Sanuar, brother of North Care.

у, 1810. Не жы

yer by profession, and ed his pam and talents in the of safety, so provincial congress of North Carolina, ich he was a leading member from 1774.

8. In 1777 he was appointed chief justims state, an office which he retained till when he was elected governor of the He retired from public duties in 1799. In he was chiefly employed in civil capacist in some of the emergencies of the times wed as a soldier. III. John Baptist, son preceding, born in 1748, died in 1795. Sared the army at an early age, and in was appointed a captain of state troops in atimental service. He served throughout we, reaching the rank of lieut.-colonel, lead his military career at the battle of r. He was elected to congress in 1787, a 1795 was elected governor of the state with Carolina, but died before his inaugula 1768, died about 1830. He was a solf the revolution, and was made prisoner fall of Charleston, in 1780. After being aged he served with gallantry till the with war, first under the command of state, and afterward under that of Greene. In the commany years in the general assemination.

HE, WILLIAM, born at Lisburn, Ireland, the year 1759, distinguished as a perrea the flute, in which he effected some tent improvements, and for which he a number of concertos of considerable. He owed his education and subsequent

a number of concertos of considerable. He owed his education and subsequent sement in the world to the generous pate of Count Bentinck, a wealthy nobleman stand, formerly in the British military

HER, ADOLPHUS, a German bookseller and the author, born about 1800, died at Venet. 2, 1858. From 1820 to 1825 he lived agland, where for several years he was of the Rothschilds. He afterward enlast St. Petersburg in the diamond trade, subsequently in 1827, while engaged in lation at a Leipsic fair, he was determined scident to become bookseller at Berlin. In the second supplied a considerable portion of the works of the British museum, and the library of Berlin. Although a German, it a partiality for the English language, in the wrote his own works. His edition of swels of Benjamin of Tudela is the best

HES, the solid products of combustion, the sof the burning of vegetable matters, coal, simal substances. The term volcanic ashes smonly applied to the finely comminuted spected from volcances. This use of the according to Bory de Saint Vincent, is int, the substance, by his examinations, provbe not the products of combustion, but fine less of lava ground to dust. Ashes are

composed of earthy matters and salts, and vary in quality and quantity with the materials that furnish them. Of wood ashes, even the different parts of the same plant furnish different quantities, and ashes of different compositions. The soil itself has an influence upon the kind and amount of materials taken up by the plants. Nearly all the substances found in the soil enter into the composition of vegetable matters, and are found in their ashes. Alumina is, however, are found in their ashes. Alumina is, however, reason reason met with. No inorganic substances found in the ashes of plants come from any other source but the soil. Of the portion of wood ashes soluble in water, and removed from them by leaching, or lixiviating, the greater part consists of the carbonate, silicate, sulphate, and muriate of potassa. Of the insoluble portion muriate of potassa. Of the insoluble portion (leached ashes), carbonate of lime commonly forms about one-half. The remainder is mostly silicate and phosphate of lime, oxide of iron, and salts of magnesia. It is not supposed that the ases were combined with carbonic acid in the plants, but with organic acids, and that these were replaced by carbonic acid by the process of combustion. Plants that grow in and near the salt water contain soda instead of potassa, deriving it from sea salt. The following exderiving it from sea salt. The following examples show how the quantity of ashes varies with the wood: From 1,000 parts, by weight, of oak, well dried, Kirwan obtained of ashes, 18.5 parts; from elm, 28.5; willow, 28; poplar, 12.2; ash, 5.8; pine, 8.4. The bark furnishes more ashes than the solid wood, and the branches than the trunk. Peat, and coal ashes, contain a large proportion of alumina; oxide of iron, carbonate and sulphate of lime, are also found in them. The principal uses of ashes are for making soaps, and for enriching land. The soluble salts of potash are dissolved out from them, and oil, or fatty matters, added to the althem, and oil, or fatty matters, added to the al-kaline, to produce the soap. The residue is a valuable manure, but evidently inferior to the ashes before the potsah was extracted. Pot and pearl ashes are the salts of potash extracted from wood ashes. The name potash is at once traced to the method of its preparation from the extract of the ashes boiled down in iron pota. Barilla, or soda-ash, is a similar product of plants, soda replacing the potash. It was for-merly largely imported into this country, but is now excluded by cheaper preparations of soda direct from sea salt.—Ashes are sometimes used with lime and sand, to increase the strength of the mortar, and prevent its cracking. Bone ashes contain much phosphate of lime, the cause of the fertilizing properties of hime, the cause of the fertilizing properties of bones. Phosphoric acid, and phosphorus are prepared from these ashes. They are also used to make the "cupels," in which argentiferous lead is melted and oxidized for obtaining the pure silver. The cupels are merely bone ashes made into a nests with water, or beer and water, and into a paste with water, or beer and water, and then moulded and dried. In distilleries, ashes find an extensive use for the rectification of the alcoholic liquors, the alkaline matters neutral-izing any acids that may be present, and thus

preventing their volatilization. It is a common impression that their great consumption in American distilleries is to give strength to the liquors after their dilution with water, and this is naturally confirmed by the violent caustic quality, not unlike that of the ley of ashes, for which much of the common whiskey of the country is remarkable. Ashes mixed with salt make a strong cament for iron pipes. Cracked pipes repaired with it bear as heavy pressure as new pipes. The cement acts on application of heat of 600°.—Shower of Ashea, a phenomenon which frequently accompanies the eruption of a volcano. Quantities of matter resembling fine gray or black ashes are thrown aloft from the crater to prodigious heights, and borne by the winds to an astonishing distance. On the eruption of the volcano Tomboro, in the island of Sumbawa, east of Java, in the year 1815, a shower of ashes fell for 19 hours in succession. An English cruiser, 100 miles away from the island, was surrounded by the cloud, and received from it an addition to its freight of several tons' weight, and a Malayan ship was covered to the extent of 3 feet in depth. The sahes fell upon the islands of Amboyna and Banda, the latter 800 miles to the eastward, and this apparently in the face of the south-east monsoon, which was then blowing, but really carried by a counter current, the existence of which, in the higher regions of the atmosphere, was then first established. A similar phenomenon was observed in the eruption, in January, 1835, of the volcano Coseguina, on the south sahes were carried to the eastward, over the current of the trade winds, and fell at Truxillo, on the shores of the gulf of Mexico. Ashes from Etna were deposited in Malta in 1829; and in the year A. D. 79, the cities of Herculacum and Pompeii, which had 16 years before been destroyed by an earthquake, were buried beneath the showers which fell from the neighboring volcano of Vesnvius.

ASIII.AND, a county in the N. E. part of Ohio, area 340 square miles. Its surface is hilly and undulating. The soil is of unsurpassed fertility, and especially productive of wheat, grass, and fruit. It is ero by to Ohio and Pennsylvania railroad.

Supplied with motive power by the and Lake Fork rivers, which the Mohiccan. Organized in acceptance and Ashland; pop. 24,000. In 1850 this yielded 446,818 bushels of corn, the wheat, 273,610 of oats, 64,976 of 23,826 tons of hay, 205,566 pounds of wous 368,988 of butter. It contained 44 church a newspaper establishments, 4,295 pupils actending public schools, and 70 attending academies and other schools.

ASHLAND, the home of Henry Clay, the eminent American statesman. The estate, situated about 1½ mile from the city of Lexington, in Kentucky, consists of about 600 acres, of which 200 are taken up by a noble park, charac-

terized by Lord Morpeth, so case passed several days there, as the neurest approach to an English park of any in the United States. The remainder is under a high state of enkinetical producing excellent crops of wheat, rya, hampeto. The house, which has been taken down since the decease of Mr. Clay, was a plain and modest structure, two stories in height, and surrounded by beautiful shade trees. This unpretending mansion was the home of Clay decise more than 40 years, and after his death passed by public sale into the hands of his eldest and James B. Clay, by whom it has been rebuilt.

James B. Clay, by whom it has been rebail.

ASHLARS, blocks of stone from the quants.
Sawed ashlars are the slabs, as they came from the mill, prepared for facing the walls of beldings. The term is most commonly limited to this application. Tooled ashlars are slabs made and with parallel flutings. They are often unin basements, and set so that the flutings are vertical.

ASHLEY, a county of Arkaness, bordesing on Louisiana, and bounded on the W. by the Sabine and Washita rivers; area, 879 seems miles. The surface is undulating, and highly productive of Indian corn, cotton, and tebesco, the latter being yielded in prodigious constitution. Capital, Fountain Hill; pop. 2,058, of when 1,414 are free, and 644 slaves. In 1850 them were raised 65,787 bushels of corn, 14,989 of sweet potatoes, 689 bales of cotton, and 48,139 pounds of tobacco, the greatest quantity of the article produced in any one county in the catality contains 10 churches, and 150 pupils attenting public schools.

It contains 10 churches, and 150 pupils attending public schools.

ASHMOLE, ELIAS, an English satisfies and founder of the Ashmole museum at Cuffed, born at Lichfield, May 23, 1617, died May 21, 1692. He was brought up for the law, and practised as a chancery solicitor. In the circle wars he quitted London and settled at Cuffed warship of the king's cause by the hattle of Worcester, he withdrew to Chashire and aban ned politic life war in the cuffed war in the cuffed

tion, when he obtained favor in the single of the rry monarch who bestowed upon he honorable and locative differs. He ndsor hereid, commissioner of constant and with those he already had. He i thrice: Eleanor Mainwaring in 1832, sinwaring, widow of Sir Thomas Mainwaring, widow of Sir Thomas Main in 1849, and on her death, in 1842, and on her death, in 1842, and on the relationship of the astrologues and alchemics Life, Sir Jones Moore, and Wharten, and it is pher's stone. In 1853, he astrologues and alchemics Life, work on Hermetic philosophy and the pher's stone. In 1853, he astrologues and alchemics Life, work on Hermetic philosophy and the pher's stone. In 1853, he astrologues and alchemics Life, work on Hermetic philosophy and the pher's stone.

o published unde title of Thes ın 1650 he made of the coins in the Bodleian library, 850 was so fortunate as to obtain from ager Tradescent the museum of coins issities which he and his father had at their house in Lambeth near Lon-1672 he presented to the king a his-he order of the garter, which he had a preparing, and for which he received king a grant of £400. In 1679 his in the temple were burnt, and the

et of his library, with 9,000 ancient en coins, and destroyed a valuable lern coins, sof other highly interesting and curious
He had proposed to the Oxford
to present them with his collection
they would provide a suitable

my, if they would provide a suitable, and in 1682 the Ashmolean museum

EUN, JEHUDI, agent of the American ties society, born in Champlain, N. Y., 1764, died Ang. 25, 1828. He gradt Burlington college in 1816, and maring for the ministry, was chosen for in the theological seminary at Removing soon after to the District mais, he engaged in the service of ministry, but sailed for Africa, June, to take charge of a reinforcement for my of Liberia. Upon his arrival he massif called upon to act as the supreme a small and disorganized community a small and disorganized community ad by numerous enemies. The duties stor, judge, soldier, and commander, swa upon him, and in a short time he so ted the spirit of the colonists, and reir discipline as to enable them about s after his arrival, by the aid of some ions he had constructed, and his own ions he had constructed, and his own inary bravery and conduct, to repel a from a party of 800 savages, and to demanded with increased numbers. When they ill health to abandon the country, is, 1828, he left a community of 1,200.

He arrived at New Haven, where he had a four inch he form his death.

Pan important influence over the surrtribes.

IUN, John Hookee, professor of law rd university, born in Blandford, Mass., 1900, died in Cambridge, April 1, 1838. entered at Williams college, but gradtharvard in 1818. He attended to stice above any other branches of the ty studies, but soon devoted himself a greatest zeal to the study of law. schieved a rapid success, and upon soion to the bar, he soon reached the ak of the profession. He became assorith Judge Howe and Mr. Elijah H. tribes.

i, Aug. 10, a fortnight before his death.

cally saved the existence of the colony

da, but established for it through his

rith Judge Howe and Mr. Elijah H. conducting a private law school at

Northampton, and when the law department was organized at Cambridge in 1839, the first appointment was tendered him by a unani-mous vote of the corporation. He held this situation until his decease, conducting his instructions and lectures with remarkable ability. His early death, in the opinion of those who were best able to judge of him, extinguished the promise of legal eminence unsurpassed, if not unequalled. His health had not been such as to enable him to put forth his whole intellectual strength, nor did his efforts receive any ssistance from graces of manner; but his know edge of legal science was profound and accurate, and his comprehension of the principles of law so perfect that he seemed to arrive at his decisions by an intuitive operation of the mind. Although the vigor of his reasoning powers vas great, the accuracy of his conclusions was still more so—an unerring lamp appeared to lead him through the legal labyrinth. Even at his early age he was considered fully equal to the highest stations and responsibilities of the

profession, and by his admirable private character had won a high degree of public esteem.

ASHTABULA, a county in N. E. Ohio, on the borders of Lake Erie and Pennsylvania, on the borders of Lake Erie and Pennsylvania, which was settled by natives of Connecticut in 1796. The surface is level, the soil clayey, and adapted to grazing purposes. Grand and Conneaut rivers both run through it. The county contained, in 1850, 28,766 inhabitants, and produced 56,618 tons of hay, 704,291 pounds of butter, 185,203 pounds of wool, 267,209 bushels of corn, and 189,478 of oats, which, with cattle, form its chief staples. It has railroad communication with Cleveland and Erie, and contained 55 churches 8 newspaper offices, 4.688 pupils cation with Cleveland and Erie, and contained 55 churches, 8 newspaper offices, 4,688 pupils in the public, and 280 in private schools, at the date of the last census. Capital, Jefferson.

ASHTOLA, an uninhabited island of the Indian ocean, lat. 25° 8′, long. 68° 48′ E., 12 miles from the Mekram coast in Beloochistan.

Its shores abound in turtle.

ASHTON-UNDER-LYNE, a manufacturing town and parish of England, county of Lancaster, on the Tame, 6 miles from Manchester. It is well situated for manufactories, of which there are 84 in active operation, or which there are 54 in active operation, spinning and weaving calicoes, working 8,588 horse-power, and occupying the labor of 14,500 work people. It has barracks, permanently occupied by a battalion of infantry. It sends one member to the house of commons. It is abundantly supplied with coal, and communicates with Manchester, Huddersfield, and Derbyshire by canals. It contains a large church of the time of Henry V., and places of worship for Methodists, Baptists, Unitarians, Roman Catholics, Moravians, and Jews. Pop. 676 80,676

ASHTORETH, called by the Babylonians Mylitta, and by the Greeks, Astarte, the great female deity of the Syro-Arabian nations, bearing the same relation to their great male di-vinity, Baal, which the Hera or Juno of the Greeks and Romans bore to Zesa, or Jupiter. By Ashtoreth was originally meant the moon—"the queen of heaven"—and subsequently the planet Venus, and perhaps other celestial bodies. Under the name of Ashtoreth is supposed to have been worshipped one of the great agents by which animal life is preserved and perpetusted—the principle of conception and parturition. This goddess was variously represented in different ages and countries. In Canaan she was adored under the image of a heifer or calf. In Phonicia she was at first represented by a white conical stone; afterward with the head of a bull or cow; and ultimately as a human being with a thunderbolt in one hand, and a sceptre in the other. The worship of Ashtoreth was sometimes performed in shady groves, sometimes in stately temples. Cakes made in the shape of a crescent, and male kids, are said to have been the offerings in which she most delighted. Eunuchs dressed in feminine attire, or women, were her favorite priests; and many of the rites in which they indulged at her altars were of the most lassivious and abominable character. The dove, the crab, and the lion, among animals, and the pomegranate among fruits, were sacred to Ashtoreth. The idolatry of Ashtoreth was introduced into Israel in the days of the judges, and was not finally extirpated till the reign of Josiah.

days of the judges, and was not finally extirpated till the reign of Josiah.

ASHWORTH, Calke, D. D., an English dissenting elergyman, born in Lancashire in 1792, died July 18, 1775. At the age of 18 he became a student in the seminary at Northampton, presided over by Dr. Doddridge, and having passed with credit through the course of study, was in 1746 ordained minister of a dissenting congregation at Daventry, a position which he retained till his death. He was recommended by Dr. Doddridge as the personmended by Dr. Doddridge as the personmending the education of young men for the dissenting ministry; and therefore, after the death of Dr. Doddridge in 1751, Dr. Ashworth became his successor as principal of the institution, and under his care several noted preacher and writers on theology were educated Dr. Ashworth preached the funeral sermon of Dr. Isaac Watta.

ASIA, the largest continental division of the globe, includes a surface of about 17,500,000 se, miles. The greatest breadth from M. to S. is 5,800 miles; the greatest length from E. to W. is 7,600 miles. It has a coast line of 25,000 miles, or, deducting the northern coast, in the Frozen ocean, the coast outline is about 20,800 miles. This amount gives a proportion of 450 sq. miles of surface to each mile of navigable coast line; a very large proportion of which belongs to the southern and eastern portions. The continent is bounded N. by the Arctic ocean, S. by the Indian ocean, E. by the N. Pacific ocean, W. by Europe, and S. W. by Africa, and is comprised between lat. 1° 18' and 78° 20' N., and long 27° and 140° E. The surface ascends irregularly, but with a

steadily increasing elevation, from the outer in toward the centre. In central Asia the hid land plains are upheaved to from 4,000 to it 000 feet. These immense plateaus are surroun ed on all sides and edged (so to say) by most tain ranges of the grandest proportions. The are subdivided by minor ranges into smaller a gions. On the north and north-west there gions. On the north and north-west, th a prodigious extent of unbroken surface a level, stretching from east to west, and f the Frozen ocean south as far as the a mountains. Before considering the table of of Asia in detail, it will be more convenien describe the mountain systems. The name extent of the mountain ranges whose to courses embrace every point of the cou-and their frequent breaks and want of costs throw some difficulty in the way of an atto give a simple and brief, yet comprehenview. There seem to be 3 grand systems to fithe Altai, of the Hindoo Koosh, and of Himalaya. The 2 latter are usually considerable to the control of the control as one system; but we think there are cient reasons for dividing them. The Altai tem belongs to central Asia, and runs in a n line with the 50th parallel of N. latitude. the northern limit of the great eastern upland then. The Altai range, after running east about 70° E. long., as far as 110° E. join great chain of the Aldan (called also the evol, or Yablonnois), which runs N. E. to the tic circle. Thus, an unbroken line is formed the called also of the east Vice the called also the east of the called also the cal the edge of the great Kirgheez steppe to Bel strait, sometimes in 2 and sometimes in 2 allel lines, with extensive offsets and spurs ning north and south. The centre of the g east and west chain, of which the Hindoo Ko or Indian Caucasus, is the connecting lin near the intersection of the 35th parallel the 73d meridian. The towering peaks of Hindoo Koosh connect the Kuen Lun, or Ku lun, and the Peling mountains of the east will Parapomisan, Elbrooz, and the Armenian stains of western Asia. This second gree tem traverses Asia throughout its enti tem traverses Asia throughout its entire less from the Dardanelles to the Yellow sea. separates the great desert of Gobi from C proper and Thibet, and divides the steppes Toorkistan, or Independent Tartary, from upland plateau of Iran.—The system of withe Himalaya is the colossal centre, takes an course N. W. and S. E., running from extremest point of the Malay permission into central Asia. The true Himalaya is range of about 1,500 miles, with a breadth range of about 1,500 miles, with a be 250. From about the point of inter-the 28th parallel of latitude by the 90th it takes a curvilinear mean N. W. dire til it strikes the Hindoo Koosh at an gle. Here the complication forms a the most stupendous peaks in the modern traveller says: "I have con upward of 20 peaks exceeding 26, Thence continuing a northern course, name of the Bolor, or Belor Tagh (a savage wilds, of which very little is kn

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s the border of Toorkistan. has the outlest of floristan. At the is joined at right angles by the has mountains, which stretch far away he desert of Gobi and upland plains of a. The southern extremity of the true a is connected with no less than 5 which radiate from it fanwise, and travninsula of Indo-China with remarkpeninsula of Indo-Unina with remain-illel regularity. Before these immense ats of the earth's subterranean forces mountain systems, except the Andes, comparative insignificance. And yet sive ranges are to be enumerated. g-pe Shan, a coast chain of Mantchoohe Corea, running N. E. and S. W., the d Kinyan, running N. E. and S. W., the eastern part of China and Chinese the Nanling in China proper, and the mand the eastern and western Ghauts of In western Asia we have also a a Arabian peninsula, Mount Sinai, antains of the Syrian desert, Lebael, and the other mountains of Syria and the Taurus, in Asia Minor, usus, between the Black and Caspian, Ural, running north from the Caspian resen ocean, belong to Europe equally A chain of remarkable character s extent branches off south from the of the Aldan mountains, in the north-de, near the Arctic circle. This extrais, near the Arctic circle. This extra-thain traverses the length of the Kamtpeninsula, and reappears from the paths in the long succession of the Koorile livides, or rather forms, the Japanese spain appears in the frequent intervals • Choo islands, terminating at the island ma, nearly east of the Nanling mountains. Kamtchatka the peaks of this chain 10 feet high, and among them are sev-re volcanoes. It forms an outer ocean o the eastern shores of the continent, etween it and the mainland the sea ad Okhotsk.—The elevated table-lands re, the great oriental plateau and the plateau, or plateau of Iran. The great plateau includes the upland plains of and the great desert of Gobi, or Shapart of Chinese Tartary. It extends alkain chain, on the north, to the Kuen accretionation of the Hindon Kocah) continuation of the Hindoo Koosh) On the east it is separated from rial lowlands of China proper by several a chains, while the Bolor Tagh, on the vides this region from the lowland. Independent Tartary, or Toorkistan, a the lesser plateau of Iran. This important the lesser plateau of Iran. ries of upland plains comprises a sur-,500,000 sq. miles, or twice the area of at an elevation never less than 8,000 often far higher, above the sea. Its haracter is a barren, dreary waste, ex-a scorohing summer sun, while in wininseparable from a high altitude, is still more insupportable by the bleak at blow from the north. South of the

Kuen Lun, the southern mountain rampart of the great plateau, the surface slopes upward into the still loftier mountain valleys of Thibet, a district which attains an elevation of 12,000 fe stretching away to the foot of the towering Him-alaysa. On the south-east the great plateau is bounded by several mountain chains, and the territory of China proper descends by a succession of easy terraces to the margin of the Pacific ocean. On the north-east the land slopes down ward, in like manner, through the steppes of Mantchooria, until the desert is checked by the Mantchcoria, until the desert is checked by the Chang-pe Shan mountains, whose eastern declivities descend abruptly—sometimes perpendicularly—to the ocean level. Northward, after passing the lofty chain of the Altai, the surface rapidly sinks to the level of the Siberian plains and steppes, the abode of a scanty population of wandering tribes. On the south-west the great rapiny and steppes, the abode of a scanty population and steppes, the abode of a scanty population wandering tribes. On the south-west the great plateau is bounded by the terrific and savage barrier formed by the Hindoo Koosh and Bolor Tagh, beyond which we find the western upland of Iran.—The 90th meridian, which may have taken to represent the mean north and land of Iran.—The 90th meridian, which may be taken to represent the mean north and south axis of Asia, coincides with the line of greatest elevation and depression, not only of the oriental plateau itself, and the mountains which traverse it, but also of the great Himalayan boundary chain. Commencing at the head of the bay of Bengal, this section line rapidly ascends through the valley of the Bramapootra and Bootan, and, scaling the sides of Himalaya mounts to the table lands, ascending at once to the mighty summit of Kunchingings. at once to the mighty summit of Kunchingings, where it descends into the mountain valley of Thibet, 12,000 feet above the level of the sea. It cuts the Kuen Lun, the Thian Shan, the great and little Altai, and descending through Siberia along the valley of the Yenisei, reaches the Arctic ocean. At the intersection of this meridian by the 85th parallel, the great plateau, owing to the presence of the lowlands which here push far into its outline, is at its narrowest breadth. The western plateau or plateau of at once to the mighty summit of Kunchinging breadth. The western plateau, or plateau of Iran, is of an oblong shape. It commences about 70° E., extending west from the Hindoo Koosh and the Suleiman mountains as far as the shores of the Mediterranean, and north from the mountains which skirt the Persian gulf and Arabian sea to the lowlands of the Aral and Caspian. It includes a surface of 1,700,000 sq. miles. Its altitude is considerably lower than that of the eastern upland, nowhere exceeding 4,000 feet above the level of the sea. The phys-4,000 feet above the level of the sea. The physical character of the surface is greatly varied: the salt and sandy deserts of Khorassan, and Kirman, and Syria; the broken and diversified surface of Irak Azerbaijan and Koordistan; the rich alluvial plains of Mesopotamia, and the succession of hill, valley, and plain, which distinguish Anatolia and Syria. In the interval between the head of the Persian gulf and the southern shore of the Caspian, its region is greatly narrowed, less than 6° of latitude intervening. Both east and west of this line the plateau expands to its full width. The eastern

portion of this plateau is separated on the south and south-west from the ocean by a range of mountains running parallel with, but at some distance from, the coast. The strip between distance from, the coast. The strip between these hills and the sea is intensely hot, and the climate highly deleterious. On the north the Elbrooz terminates the table-land, and its northern declivities lead down to the deep depression of the Caspian. Between the Caspian and the Caspia menia and the Caucasus raise an impassable ments and the Caucasus raise an impassion boundary between the table-land and the steppes of the Don and Volga. On the south-west the plateau is separated from the highlands of Arabia by the lowlands west of the Euphrates. In general, the western plateau is deficient in water, but in the hilly districts there is a good supply of this indispensable agent to vegetation, and the labor of the husbandman is well repaid. In its climate, productions, and the variety of the human race by which it is inhabited the western plateau presents points of analogous the western plateau presents points of analogy to Europe which are wholly wanting in the eastern plateau. This region includes the modto Europe which are whony waning in the castern plateau. This region includes the modern empires of Turkey in Asia, Persia, Afghanistan, and Beloochistan. Its soil is famous in history, and was the site of all the great oriental empires of antiquity, excepting the Indian and Chinese; on the east the Aryana, in the centre the Medes and Persiana, Assyriana, and Chaldeans Revend them to the west were the centre the Medes and Persians, Assyrians, and Chaldeans. Beyond them to the west were the kingdoms of Israel and Judea, with the mountain tribes, the Syrians, and the great trading communities of the Phœnicians, including the renowned cities of Tyre and Sidon. In the sorth-west were the wealthy, populous, and civilized Greek colonies of Asia Minor.—The lowlands of Asia are vast plains, as marked character as the uplands which they sure Their type is great depression of the sm Their type is great depression of the su often below that of the on wi are r re e uniformity of this le .it **W**(t) fall to the great rivers which in ly to the sea. 1 steppes of Inde beria, the alluvan p T. great lov of 81plains of India, be-Biam, and the low tween the foot of a and the Dec-A A B B can. The primeva steppe no and Aral, the habitat of the of the with their flocks and berds, 7 14 of the Atlantic. In summer min winter, cold and bleak. Intumn an abundant, but thin p 79 it, soon to be dried up by the not v the want of water. The peculiar atmos fluences of the region prevent the growth of the and the operations of agriculture. The inhal ants are nomada, among whom the ares of civilization have made litter. The inhal-From the land of the Kirgheez the Siberran v extend north and north-east to the Arctic oc and to the eastern shores of Asia, o an area of 7,000,000 sq. miles, equal the eastern plateau. On the north covered with impassable marshes,

overflow of the great ri te whose wat up by the accumulated ice of the A In the region we find the maximum and subdurate is the general char-soil that a few valleys intersperse spure of the Altai in couthern Sign produce scanty crops of grain and fi reputation for fertility. In fareii with the inhospitable plains of Six rich alluvial lowlands of China, wi their fertile limits on the cast. the exclusion from the back of ural barriers of mountain and de ed the Chinese upon themselve we have the most stationar changeable among civilized m rminated t lands of China are te the broken surface of Cochin Chi of Cochin, Indo-China spreads out it panse, intersected by 5 fanilies ch rich valleys present a soil of bound tiveness. The lowland plain of 8 level, overed with a large smount ter, is particularly suited for those require an unusual quantity of me plains of India extend from the fee circle formed by the Himalaya, and Suleiman, south as far as th the Decean, which forms the sout the peninsula. The Indian lowi strip of coast line between the a Persian gulf and the upland of Ir the general view of the lowiands. limits we have thus endeavored the elevated table-lands of the I h of Hindostan, and the tal n peninsula. The Deces

h of Hindostan, and the table-land of the an peninsula. The Decoan table-land of igular shape, formed by the Vindhyan, of the morth, and by the eastern and wester Gh i. It has a mean elevation of about 4,500 feet, and consists of plains, ridges, and single emineusces. On the east, the Ghauts desired a series of terraces to the sultry Osremania co and bay of Bengal. On the west, the Gl islope

i alope down to the Malabur coast, which conser and covered with forest growth.—The n table-land commences at the scale a edge of the Iranian platean, from which parabel by the plains of the Emphases Syrian desert. The Nodjed, or methers, is a dry climate, resembling that of Perposed to considerable therman that of Perposed to considerable therman coasts of a und of considerable elevation, a parabel barren desert, subject to a blazing stream desert, subject to a blazing stream the desert fire by no means unwelsome traveller. On the south, the land show more fertile plains of Yemes, which not really of remarkable luxuriance, is not yellow the comparison with the second

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Their course is determined by the

Irtish.

of Tiberias are situated. This is altoan exceptional character, and seems anected with any other natural article of the surface. The shores of the a of the surface. are the lowest point on the Asiatic .—The Asiatic rivers are conspicuous ber, magnitude, and historical intercontiguity and facility of access by been instrumental in promoting m, by means of commerce and the the facilities of communication afy great rivers have exercised an equally influence on internal improvements, development of national prosperity. sen a peculiarity in the water-courses, all by the term double system of rivers, meh insisted on by some geographi-In Asia, the geographical fact of is more frequent than elsewhere. nity of great cities erected along 2 bezivers, enclosing, as it were, an area
ry, would certainly produce an imporca on civilization. But this result has n place without the double rivers, he Amazon and its affluents, the **d Don,** or even the Indus and Sutlej, such specially marked social results man peninsula and the desert of Gobi man peninsula and the desert of Gobi mee of rain. The desert of Gobi is don of south-westerly winds which a long stretch of continent, and arrive int perfectly deprived of moisture. their melting snows on their outer Arabia is situated between the ions of Africa and the Asian contisouthern part only derives some from the north-eastern monsoon, accounts for the fertility it enjoys. riverless and rainless are compara-It is not to be implied that there ter-course, nor that a shower is a Asia may be divided into 6 principal area. Their general outlines are bearings with the great surface dihave been describing. They are the sterien water-shed, the Mantchoo-Chinese, the Indian or Himalayan, mian or basin of the Euphrates, and t area of inland drainage, including the the various inland lakes. If we ex-Chinese rivers which run a mean E. surse, all the other important rivers that reach the coast run N. and 40th parallel of latitude, which is E. and W. line of the great central seems to be the dividing line of the greats. The rivers in the area of inerrents. simage run in every direction, their being determined by the local accident surface. The rivers running north are 'the Siberian district; the Lena, the the Obi, and its great affluent the

declivity of the northern side of the Altai system. The Lena is upward of 2,000 miles in length, and drains a basin of 800,000 square miles. The Yenisei is upward of 2,500 miles in length, and drains a basin of 1,000,000 square miles. The Ohi exceeds 2,000 miles and in the The Obi exceeds 2,000 miles, and in its windings drains, with the Irtish and other tributaries, a basin of 1,350,000 square miles. Another river, the Olenek, is upward of 800 miles in length. These rivers abound in fish. We have already stated that the ice of the Arctic circle impedes their flow, and, of course, their navigation. The tributaries of these great their navigation. The tributaries of these great rivers are navigable to a considerable extent, for, although they have a mean northerly course, they wind far to the east and west. In the north-east we find the great river Amoor, which drains the greater part of Mantchooria and part of Mongolia. Its basin is triangular, and is included between the south side of the Aldan and the mountains of Kin Yan and Changpe Shang. It runs about 1,600 miles, and drains an area of 800,000 miles. The Hoang Ho, 2,000 miles long, and the Yang-tse-Kiang, or Kiang Khu, upward of 2,500 miles long, rise on the north and south declivities of the Kuen Lun. This and the Peling separates them in their whole course until near the termination of their great courses, when they again approach each other. They describe an immense circuit, and are united to the east of the mountain range by a system of canalization. The Hoang Ho traverses the plains of China, and, like the Mississippi, brings down an amazing quantity of sedimentary matter, which gives its name to the Yellow see; their drainage area amounts to Yellow sea; th 1,400,000 miles. 1,400,000 miles. The Canton river, or Hoang Kiang, rising in the province of Yunnan, empties into the bay of Canton. The easterly course of these rivers is determined by the alopes of the mountains which separate the Thibetian plateau from the lowlands of China, and which gradually decline toward the Pacific in a succession of terraces.—We now come to the rivers cession of terraces.—We now come to the rivers flowing south, including the river systems of Indo-China, of eastern and western Hindostan, and, further to the west, the Tigris and Euphrates. Among them are 6 rivers of the first magnitude. All, except the Tigris and Euphrates, flow from the Himalaya and its offerstand 8 the Bernandtz the Indus and sets; and 8, the Bramapootra, the Indus, and Sutlej, present the singular feature of rising on the northern declivity, and breaking through the chain to find their basin and outfall on the southern side. The rivers of Indo-China are southern side. The rivers of Indo-China are the Irrawaddy, the Menam, and the Cambodia, together with some smaller rivers. They take their rise in the Thibetian plateau to the north of the Himalaya chain, and, passing to the east of the true Himalayas, they traverse the Burman empire and Siam down the valleys formed by the mountain chains of Indo-China, and find their way to the sea in the bay of Bengal and gulf of Siam. The Ganges and Bramapootra form a double system. They rise at opposite

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of the Zab,

sides of the Himalaya, which separates their basins; they afterward converge, and finally fall into the sea within 40 miles of each other at the upper end of the bay of Bengal. The Ganges takes its rise from the southern declivity of the Himalaya, 18,000 feet above the sea, about 200 miles N. W. of Delhi. It issues a full-grown stream 120 feet wide from a perpen-dicular wall of ice. The sacred river has a great number of tributaries, all taking their rise great number of tributaries, all taking their rise from the southern slope of the Himalays, the holiest of which, the Jumma, joins it at Allahabad. The Ganges flows into the bay of Bengal, which it enters by numerous mouths, forming, during the last 200 miles of its course, an extensive delta. The Bramapootra, "the offspring of Brama," does not receive this name until it has run an extensive course under the names of the Sanpoo and the Lohit; it rises near the sources of the Indus and Sutlej, on the northern declivity of the Himalaya, in lat. 80° N. long. 82° E. The Sanpoo flows E. through Thibet as far as the meridian of 90°, when it turns to the south and forces a pa sam ; there through the mountain chain into As to takes its grander name, and makes a long course almost due south through Assam and Bengal. It flows into the bay of Bengal; some of its mouths communicate with those of the Ganges, but the 2 rivers preserve independent channels. The drainage area of the Ganges and Bramapootra amounts to 650,000 square and Bramapootra amounts to 650,000 square miles. The other great river of south-eastern India is the Indua, which has its origin on the northern declivity of the Himalsya, not far from the sacred lake of Manasarowar. It takes a W. N. W. course, runs through the valley of little Thibet, and, intersecting the great Himalsya chain in about 35° N. lat. and 74° E. long. west of the valley of Cashmere, it descends S. W. to the plains of the Punjaub. The Sutlej, the chief tributary of the Indus from the K., also springs from the sacred lakes, and flows westward along the valley. At about 75° E. long, it also breaks through the Hil lava mountains, and descends S. W. into of the Punjaub. From Mittun the Ilsuari we of the Punjaub. From Mittun the Luon southerly, and empties itself into the Ara sea by several mouths. Its miles, and it drains an The Indus and two ces the highest histo ford in the neighborhood the great crossing place of all the proceeding from the highlands stern Asia, into the rich ter The Euphrates rises in two sources, one minterior of Armenia, not far from Mount Arat, the other in the mountains of Erzro The river de the table-lands. scribes a curcusthe table-lands. The river describes a curvuitous course to the west, and then descends in rapids through the Tauris mountains sou easterly across the plains of Mesopot.

Tigris has its principal source in the of Armenia, west of Lake Van. Its is rapid, particularly after it receiv

the Tigris an Near the chy us phrates approach to within 12 miles of other, and from this point they run nearly allel for more than 100 miles. They units ab Bassorah, and form one stream, the Arab, which flows into the Persian gulf drain a basin of nearly 300,000 square The names of these great rivers bring flood of historical recollection full upon the The Euphrates is mentioned among the of l adie, the first seat of mankind.
"the waters of Babylon," "the great riv
Some of the mightiest cities of antiquity on its banks. Its waters gave fertility lands it traversed, which supported an im-population. In central Asia, the region of drainage, there are several rivers of on able size. These drain into the numerous of the interior. The Helmund rises in Hindoo Koosh, flows N. W. into the lake of moon, after a course of 650 miles. The Je or Oxus (another of the scriptural rivers) is through Bokhara and the Sibon or Jaxe traverses the N. E. part of independentary. They discharge into Lake Aral area of inland drainage contains a num smaller rivers which are mere collecting nels for the waters that fill the several both alt and fresh, of central Asia; t important of these is the Kashgar or Y which empties into the lake of Lop Ne internal water surface of Asia is compared with the coast area of area of compared with the coast area of the There are, however, several lakes, of wh Caspian are, the lakes Aral and Raikal, principal. Although not comparable extent or importance with the great free lakes of the North American continent. inland reservoirs are of great size, and much peculiar geographical interest, f great number of salt lakes as well as fro low level. The Caspian sea is the lar lake in the world. Its level is much be of the ocean, and according to a recent vey, upward of 300 feet below that k ma. It receives the waters of the o al, and several minor streams, width is about 200 miles, and less 8, 760 miles. Berdered on the a territories and on the 5. by in as a means of rapid coun frontier is of the first import of central Asia. The lake Ar men, from which it is separa Khiva. It is about 60 f evel. Its waters are saline and with salt as those of two the water of the Jehou test Oxus and Jazartes. It g and 150 miles wid the depth both of the C taken place in medern a

the level of the sea. It receives the of a great number of rivers, of which inga is the chief, and its only outlet is er Angara, which does not discharge a f its waters, and falls into the Yenisci. an area of 15,000 square miles. Near hern end is the Russian trading settle! Kiakhta on the frontier between Siberia ongolia. In the Himalaya are situated as of Manasarowar and Bakas Tal, not mable for their size, but interesting for the semenation in which they are held for son that the sources of all the great rivers Hindoos are in their vicinity. These is 15,000 feet above the level of the sea. Les of western Asia are the lake Asphalthe Dead sea, and the sea of Tiberias. Inantly of the historical interest that attack to the Dead sea, it is of interest to the her and naturalist, lying at a level of set below that of the Mediterranean and ded on all sides by sandy desorts and a hills. The sea of Tiberias, though miles distant, is nearly 1,000 feet higher, compassed by agreeable scenery. The salt (Van and Ooroomeeyah in Armenia are by the frontier line of Turkey and Persia. climate of Asia embraces every general and every local incident: the rainless variess plains of Gobi, and the superatument of the Indian sea-coast, remes of heat and cold in Siberia and the, the more equable and agreeable climate a Minor, gradations of temperature indiboth by a latitude ranging from the r to the pole, and by a vertical range everal hundred feet below the level to

feet above it. In no part of the earth's are the modifications of temperature, and

mently of products, more strongly marked;

south-western winds are prevaient. Iness, which in Europe are warm, reach Siberia after having traversed wide expanses of land covered with ice and snow, and become cold land winds. Beside this, the marshes in the north hold the ice for a long period, and contribute to depress the temperature. The same remarks apply to the steppe district north of the Caspian and Aral, though the climate is less intolerable, and indeed to the whole of Asia north of lat. 35°. The mean annual temperature of Pekin, lat. 39° 54' is 52° 3' F., or 9° lower than that of Naples, which is rather more northerly. The mean winter temperature of Pekin is 4° 5' lower than that of Copenhagen, which is 17° further north. The steppes are a treeless district for hundreds of miles. In spring and autumn they are covered with a luxuriant herbage of tall grasses, like the American prairies, which in summer is dried up. In Siberia extensive forests of pine and other northern trees are found in some parts within the arctic circle, while in the valleys of the Altai and other sheltered places, the cereals are cultivated. The immense rainless salt desert of Gobi, whose surface is far lower than that of Thibet, and far above that of Siberia, is exposed to variations of climate so extreme that there are no vegetable productions, except the very hardiest desert shrubs. The western plateau partakes of the excessive cold in winter and heat in summer, which mark the steppe district, but if we except the salt desert of Khorassan, the surface, though generally deficient in water even in the fertile parts, is agreeably diversified, and in parts its productiveness richly rewards the cultivator. In northern India we find the great varieties of climate consequent upon vertical irregularities of the surface. In Afghanistan we find summer in the valley, envire on the bill-side and winter on the ton

spring on the hill-side, and winter on the top, and even where we have not the panorama of the year thus spread out b re the eve. the

eneration and development. In approaching the equator the line of perpetual snow com-mences at a gradually increasing altitude. The The Himalaya chain presents the singularity of a difference in the snow line on the northern and southern declivity. On the southern declivity, lat. 30° 45′ to 31° N., the snow line of the Himalaya is at 12,982 feet above the level of the sea, about equal to that in the same latitude in other quarters of the globe. But on the northern declivity, owing to the influence of the currents of air coming from the Thibetian plateau, the snow line does not commence until the height 16,630 feet. This fact, which was announor 10,030 feet. This fact which was announced by Von Humboldt, and disputed, has been established beyond doubt. In Von Humboldt's great work on central Asia, the subject of climatology is presented to the reader in the following general summary: "The continent of Asia extends from east to west, over a breadth of longitude 3 times as great as that of Europe. Between the mouths of the Yenisei and the Lena, it attains the 75th degree of latitude. Everywhere its northern coasts reach the limits of perpetual winter; the summer limit of the polar circle is only at a few points beyond the coast line. In the open plains of the meridian of Baikal, no friendly mountain chain breaks the force of the polar winds until the 52° parallel, while in the plains west of the meridian of the Bolor-Tagh the unbroken expanse reaches to the still lower briting of 20 meros. to the still lower latitude of 38 or 36. north wind sweeps over a snow-covered surface which stretches away to the pole the region of the maximum of cold. Continental Asia presents a comparatively surface to the solar influence of the torrid zone. Between the meridians which bound the castern and western limits, those of Cape Tchookotskoi and the Ural, in the enormous range of 121° of longitude, the equator passes over the ocean. With the exception of a small part of the islands of Sumatra, Borneo, Celebes, and Gilolo, there is no land in all this breadth under the equator. The continental portion of Asia in the temperate zone enjoys but little of the rising strats of warm air which the vicinity of Africa makes so beneficial to Europe. Other causes of coolness in Asia are its configuration in a horizontal sense, the form of its contours, the inequalities of its surface in a vertical direction, and its easterly position in relation to Europe. Asia comprises an upheaving of the continent in continuous mass out depression or important peninsular exten-sions north of the 80th parallel. Lofty mountain systems running east and west, whose highest chains seem to confine those of the tropics to the nearest lying vicinities, oppose themselves in a long line to the passage of the southern winds. Very lofty plateaus which, with the exception of western Persia and Thibet, are less connected with each other than they are generally considered to be, lie scattered from the mountain knots of Cashmere and Ladakh as far as the sources of the Orkhon, in a gene-

ral S. W. and N. E. direction. or enclose valleys, uplift and maintain of snow until far in the summer, and currents which they send down ex fluence on surrounding region their temperature. These uplands cha individualize the climate east of the the Oxus to the Alatan and Tarb the interior of central Asia betw lel chains of the Himalaya and the Al nally, Asia is separated by the whole w Europe from the seas west of the w coast, which, in the temperate zone, are ly warmer than the eastern shore nent (unless cool ocean currents de temperature). The breadth of mean ropean continent from the meridian of th ground of the Finnish lowland, contril the cooling down of the prevalent winds, which become land winds to the of the old world lying east of the si vated mountain wall of the Ural."-T the limit of trees in Siberia is determ the convexity of the coast-line, from preserves a tolerably even range, northerly point is about 70° north, point the usual Alpine vegetation of a saxifrages commences. This is a saxifrages commences. This is a marshes. From this point south, pine, the fir, larch, and birch, are fo tensive forests. The long frosts, and cold winds, render Siberia unfavorable production even of the hardier kind of at a latitude considerably lower than similar productions in Europe. In the of Siberia the land is broken up into and sheltered spots by the norther the great and little Altai, and here ful cultivation of wheat and gard commences. The oak first appear the parallel 50°, near the northern later Reikel. lake Baikal. The vast riverless and trict of the upper plateau is an unit pause of stony and sandy desert, m tree or vegetation if we except thorny cactuses and similar plan even to these the cold winters are Some few plants, which have b to this inhospitable region, h but in such stunted and alter . . character is lost. The assfe the southern region of this p In some of the st Himalaya. the mountain-sides specie met with, but under a mu Westward toward the lower Thibet and in Thibet itself o Himalaya, there are spots whi tion, and somewhat approxim ter of their flora to the more south of the dividing range brated by the Chinese for its y the Chinese for its vare in sheltered vall purhaps are in shell being 9,000 feet hinds already spoken in and the pastoral 1

They

steam of Iran is divided into 2 botanical ty, is which all the careals flourish luxuriantly, sether with the fruits and flowers which tally characterize the wild belts of the temperasons. The drawback of these countries is dryness of the atmosphere, for which the s found an antidote in irrigation. the plains of their works for this purise in the plains of Mesopotamia and eastern
rise attest their industry, and history tells us
the rich reward which they harvested. In
the present day the provinces of Irak Arabee,
the hilly provinces of northern and western
this, and the watered slopes of the mounthis, yield vegetable productions of the first
ality and of rare beauty. The climate closely
tembles that of Spain. The tobacco of Sheeraz
unrivalled for its delicate fragrance throughthat the East, and wheat, maize, oranges, t all the East, and wheat, maize, oranges, megranates, grow in perfection. The other gion included in this plateau is desert, not all the desert of central Asia, destitute of all aly the desert of central Asia, destitute of all spectation, but only producing those types hich tolerate an exceedingly arid soil and atherhere. South of the Hindoo Koosh the limitic influences present the same general intracteristics, but the fertility is increased by its presence of greater moisture. The vale of inhuners in lat. 34° 7′, at an altitude of 5,818, increases a climate which passes among orientations for the perfection of earthly loveliness, yet at this valley from December to March snow this valley from December to March snow
thank several feet in depth. The productions
Cashmere include every variety that does
not require the uniform heat of the tropics.
The choicest fruits and trees of Europe are here ndigenous. The floating gardens of Cashmere, orted by the thick growth of aquatic plants objects of curious interest. The great bins of northern India are the balance to this objects of curious interest. exeriant and bounteous nature, and the burntp plains of Sinde and Beloochistan partake
the desert character before the desert character before mentioned. The great Himalayan chain presents distinct sones of vegetable productions, with this renarkable circumstance, that on the Thibetian ide (where, notwithstanding the great cold, he absence of moisture causes, as we have an elevation of the snow line) the zone of stion rises much higher than on the south-Von Humboldt tells us that "the heracter of Himalayan vegetation is expressed 78 species of pine, 25 oaks, 4 birches, 2 kinds secutus (the wild chestnut tree of Cashmere, rhich grows to a height of 100 feet), 7 maples, willows, 14 roses, 3 species of strawberry, 7 haddendrons, one 20 feet high, and many ther northern forms. Among the conifers the tests deodara (the timber of the gods) is nearly field to pinus cedrus. Near the limit of persental snow are found the large and showy owers of the gentian plant, swertias, parnas-ia, peony, and tulip, with others more peculiar the Indian Alps." The tropical vegetation at be foot of the hills is found at a considerable

elevation, where sheltered valleys favor their growth. Wheat is cut at the altitude of 10,000 growth. growth. Wheat is cut at the altitude of 10,000 feet, capsicums, turmeric, and ginger at 4,000 feet. The true Indian region includes in its productions all the tropical plants and trees which dense forest, impervious to the rays of the sun, and bathed in continual moisture, will while on the ascending highlands we meet with the productions of more temperate climates. The sapan, the teak, the bamboo, grasses which grow to canes, and reeds that shoot up into the dimension of trees, are found in the swamp and jungle. In the open grounds the palm and cocoanut, the banyan tree, mangoes, plantains, bananas, guavas, the hazel nut, indigo, maize, cotton, hemp, sesamum, and a countless profusion of the most gorgeously colored flowers, make up the general idea of the Indian flora. The Chinese flora, with other peculiarities, possesses the tea-plant, whose successful oultivation is confined at present to the region on the eastern lowland, between the 30th peculiarity and 10th per left and 10th per le Attempts and 83d parallel of north latitude. have been made to introduce it into that part of the Indian region which most resembles its native habitat; but although it has been successful in Assam, as a matter of scientific enter-prise, it can hardly be said to have succeeded prise, it can hardly be said to have succeeded as yet in a commercial point of view.—Asia is probably the original habitat of all the domestic animals which have become so indispensably useful to mankind: the horse, the ox, the sheep, the dog, the camel. Few of these species are now to be met, even in Asia, in a really wild state. The Arabian and Syrian deserts, and the plains of Mesopotamia, have been renowned from the earliest ages for their incomparable horses. Of oxen, there are 4 distinct species: the Indian ox (bos Indians), remarkaparable norses. Of oxen, there are 4 distinct species: the Indian ox (bos Indians), remarkable for his haunch, and held sacred by the Hindoos; the yak (bos grunniens), of central Asia, with silky tail, used for military standards and fly-flaps; the buffalo (bos bubalus), a huge un-wieldy and ferocious brute in his wild state, but docile, though somewhat stupid, when do-mesticated; the gayal (bos gavaus), of Indo-China. Among goats the Cashmere variety is world-famous for the silky hair, of which the rare shawls are made. Of sheep, the fat-tailed Persian breed is remarkable. Dogs of all kinds and varieties abound in Asia. The pariah dog of Hindostan does the duty of a public scavenger, and another breed does the same duty at Mecca. The Persian greyhound, and the great Mecca. The Persian greyhound, and the great mastif of Thibet, are the noblest of the canine species. Among the carnivora, the Bengal tiger is the most terrible, and a singular circumstance is narrated of this animal, that during summer he ranges in the plains beyond the Himalaya. The elephant and the rhinoceros are great among pachydermata. The musk deer is a remarkable ruminant confined to Asia. Out of all the known species of animals, 422 are stated to belong to Asia, cies of animals, 422 are stated to belong to Asia, and of these 288 are peculiar to that continent.—The islands of Asia include the Kooriles,

the Japanese islands, the Loo Choos, Formosa, the Philippines, Ceylon, the great islands of the equatorial region, Java and Sumatra, Borneo, the Philippines, Ceyion, the great islands of the equatorial region, Java and Sumatra, Borneo, Celebes, the Moluccas, and numerous minor groups, which will be treated under their respective titles. The islands of the equatorial region are distinguished by the same general characteristics of climate and natural productions. One point in reference to the human tions. One point, in reference to the human variety by which they are inhabited, is worthy of notice. The western equatorial islands, contiguous to the continent, are principally inhabited by the Malay type. In the great island of ited by the Malay type. Papua, though not at an extraordinary distance from the other, we find a new variety, the Papuan, which has gradually extended itself over the great Australian continent and Australasian islands. This variety is by some writers erroneously likened to the negro race; but the difference is marked both in the cranium and facial outline, and in peculiarities of the body and lower limbs. There is more affinity with the Malay than the negro. To the cotton plant and the sugar cane are added those plants, the development of whose aromatic property requires long-continued dry heat. Cinnamon, pepper, ginger, nutmen, together with the pepper, ginger, nutmeg, together with the cocoa palm, the bread-fruit, sage, papaw, and banana, now appear in all the vigor and lux-uriance of their native soil and atmosphere. The carnivorous animals decrease in number and ferocity, their place being supplied by the quadrumana and the reptiles, who e venomous powers are in the highest degree of concentra-tion. In Papua the phalangers appear in strong numbers, the marsupials become a more imnumbers, the marsupials become a more important class, and the bird of paradise is a magnificent addition to the feathered tribes.—The mineral wealth of Asia consists of gold, silver, and copper, found in various parts of the continent, the Ural and Altai being particularly rich in mineral deposits. Iron is found in all the hill regions beyond the limits of the great central plateau. Coal is found in China, in Turkey, and Japan. In India, veins of coal have been profitably worked for many years. Mercury is found in China, Thibet, Japan, India, and Ceylon; lead in China, in the Altai, Siam, Japan, Persia, Arabia, and the Taurus. Siam, Japan, Persia, Arabia, and the Taurus. Of precions stones, the diamond is found in India and Siberia; rock crystals and amethysts in the Altai, Himalaya, and Ural; the jade stone, in Toorkistan; the beryl in the Baikal range of the Altai; lapis-lazuli on the banks of the Oxus.—The kaolin clay of Japan and China enables those nations to reach their unattainable perfection in porcelain manufacture. The petroleum of the Caspian, the asphaltum of the Dead sea, the bitumen of the Euphratea, are remarkable productions. Rock salt is found are remarkable productions. Rock salt is found in the Ural, and the Altai, while common salt is found on the surface throughout Asia. The organic remains of northern Siberia are pecu-liarly worthy of notice, possessing an interest far beyond the ordinary fossils of the geologist. Animals of extinct species have been found im-

bedded in ice, and preserved by nature cess, in all the perfection of their origins—If we turn to the pages of history, we nize in this division of the world the pairthplace of mankind, as determine pendently of revelation. From Asia or also the great religious movements of Pantheism and Buddhism; the Monot the Jew, with its obligation to extirpative; the pure and benevolent faith of the tian; the divine unity of Mohamme injunction of compulsory acknowledges there is but one God and that Moha his prophet. Northern and central A great parent hive from which swar issued to root up the ancient landsmoverthrow kingdoms. Alaric, Attila, Khan, Tamerlane, are familiar names, many have escaped the notice of histor off in eastern Asia the torrent of a nations had been set in motion centuri our era. The earliest known is "the the Hiungnu (a Turkish tribe), on the and blue-eyed perhaps Indo-Germanic tion of the Usun, dwelling adjacent to t Getw in the upper valley of Hoang Ho western China. This desolating torres ing from the great wall erected as Hiungnu (214 B. C.) to the most west of Europe, moved through central A of the chain of the Himalaya." Asia eat of the Assyrian, Babylonian, Per Macedonian empires, the mightiest of except the Roman. The great cities of Nineveh, Susa, Ecbatana, Persepulia, Nineveh, Susa, Echatana, Persepolia, C. Seleucia, Palmyra, the cities of Asia Tyre and Sidon, with others equally as in history, keep before our minds the glories of Asiatic power and dominis in after ages Bagdad, Bassorah, D. Aleppo, and even the distant Saman Balkh in the wilds of central Asia, and progress of civilization and intalligance. progress of civilization and intellige does not mankind owe to Indian nese philosophers? From them the antheir inspiration. The priests of O their inspiration. Ine priess of opplis, and of Thebes, borrowed the senature from India. Pythagoras and the acknowledged the source from when knowledge sprang. The Macadonius knowledge sprang. The Maced rious in arms, could not emulat and knowledge of the Bramins. proceeded all the science, all the proceeded at the science, at the science, at the antiquity, whether drawn from t logue of facts recorded by the sages whose chronology at Habylon, a Aristotle, extended back to 2400 R, from the lore of India and China. twilight of history we perceiv points already established as e tion, radiating simultaneously The investigations of have discovered drawings and the F plian t which take of a man ivilization i

political proportions is authenticated. every probability that this civilization in from the fountain head of intellin from the fountain head of intelli-porthern India or China. The regular 7 of the Chinese goes back to 2700 1600 years before the siege of Troy. ary monuments of the 13th century, ain, and in the 12th, Tscheuli records rement of the length of the solstitial hich was so exact that Laplace found the theory of the alteration at with the theory of the alteration quity of the ecliptic. In the present owledge as to Indian records and anthe history cannot be established ly anterior to 1200 B. C., but some ears B. C. The great era of modern story dates from the establishment of denism and the downfall of the deposit Persian empires. A second epoch d Persian empires. A second epoch it to commence with the discovery of ge by the Cape of Good Hope, but perly only the inauguration of new a relations between the southern elations between the southern of India and the European powers.
of the East India company and the
sant of the British empire in India,
poch from which, in all probability,
torians will date the changes in
asia. The introduction and propaMohammed of a new form of religious
the primitive vicerous and highly the primitive, vigorous, and highly inhabitants of the Arabian peninthe caliphate, we come to about h, when Sultan Mahmoud, a Khorashaving subdued Afchanista Khorashaving Subdued vement. Passing over the various having subdued Afghanistan and the t of Persia, made Ghuznee his capiore that he would make an annual into India for the establishment of lanism and the extirpation of idolatry. xessive years he crossed the Indus, penetrated as far as Delhi; but ways successful in his forays, he no permanent settlement. His sucled the throne of Afghanistan until n Mohammed Goree, a native chief-lied the dynasty of Mahmoud, sucthe throne of Persia, and carried the ignest as far as the Ganges. In the mergy of Mohammedanism was disthe vigorous resistance of the sultans Damascus, and Trebizond, to the the crusaders, and the active har-fare which they maintained after the Jerusalem by Godfrey of Bouillon, estern princes (July 15, 1099), and by finally expelled the Christians from Land.—We approach a period from modern relations of Europe with the India and China may be said to India, and China, may be said to a their first commencement. In 1226 the mighty migratory movements of ok place. A vast human flood, under Chan, surged in from the plains of

oriental Asia, and like the bursting of some upland lake spread its overwhelming waves in a constantly increasing circuit until further progress was stayed by exhaustion. This extra-This extraprogress was stayed by exhaustion. This extra-ordinary movement overwhelmed China, India, western Asia, and the conquering tide rolled on as far as the centre of Europe. The sangui-nary battle of Liegnitz, in which Duke Henry of Silesia fell with the flower of Teuton chivalry, seems to have stayed the course of this terrible scourge. The Mongols, on the announcement of the death of Genghis, retired, but their yoke remained firmly fixed on Russia, where the Golden Horde held sway for more than 200 years. In Bagdad they terminated the dynasty of the Abbassides and the office of the Omra al Omrah. The caliph Mustanser made a vigorous resistance. His son and successor, Mostassem, led an immense army against the invaders, but he fell with 200,000 of his best troops, and the conqueror, Hulaku, took his seat on the throne of the caliphs. At the same epoch the Mongols established the succession of Genghis Khan on the throne occupied by the descendants of Mohammed Goree, thereby founding the Mongol power in India. (The successors of Genghis were subsequently displaced by Tamerlane's de-scendants.) The great body of the Mongols themselves embraced Buddhism, but at what period is uncertain, but probably after the death of Genghis. The Mongols of India adopted the dominant religion of northern India, in which Mohammedanism had, as we have seen, been introduced by Sultan Mahmoud of Ghuznee. By the same irruptive movement, the native dynasty of the Chinese was displaced, and a Mongol line of sovereigns set up in their stead, of whom Kublai Khan was the first and ablest. or whom Kubiai Khan was the first and ablest. The conquerors made no attempt beyond grasping the supreme rule. The immense numerical superiority of the natives compelled the invaders to adopt their manners, customs, and language, while the Chinese, accustomed to a despotism, and indifferent to a change of masters, remained for a while centerty. Hitherty, Asia had ed for a while content. Hitherto Asia had been known to Europeans only through the information obtained at second hand by the Venetian and Genoese traders with the Levant and Egypt. The productions of India and the far East found their way to Europe by the Red sea and Egypt, or by the Persian gulf, connectoverland caravan routes between ed with the Aleppo, or Damascus, and Bagdad. caravan route had been established, it is impossible to say how early, between Asia Minor, the valley of the Euphrates, and the an-cient cities of Persia and Media. The Greeks of the Macedonian empire carried on a caravan trade between the cities of Babylonia and Per-sia, and north-western India. But among the fierce tribes of Hyrcania, Aryana, Gedrosia, and the other districts of Persia, it is not prob-able that there was much commercial intercourse.—In the middle ages, after the establishment of the Mohammedan empire, the long-established regular lines of communication be-

tween the Mediterranean and principal cities of Persia, and, by means of the Euphrates and Tigris, through Bassorah to the Persian gulf, and thence to the ocean, were soon adopted. From these cities not only was an inland commerce carried on among themselves, but from Teheran, by way of Nishapoor, Herat, and Cabool, the road was open into northern India, and by way of Bokhara, Sumarcand, Cashgar, and Yarkand, the road was opened to the Thibetian plateau, and to the northern declivities of the Himalaya. The conquests of the Mongola Tartarian steppes, and southern Russia, were also the means of creating an intercourse in that direction. The conquests of the sav-age tribes, which in the course of 26 years had penetrated from the Chinese wall to Cra-cow, in central Europe, and to the shores of cow, in central Europe, and to the shores of the Mediterranean in western Asia, induced a The monks, feeling of terror in Christendom. John di Plano Carpini, and Nicolas Ascelin, were sent to Batu Khan, at Karakorum, and in 1248, Rubruguis, or Ruysbrock, a Brabanter, was sent to Mangu Khan, the successor of the great Genghis. These men were sent as missionaries, from some vague hope of establishing friendly relations with the Mongolians, and even of inducing them to cooperate with the western owers in the conquest of the Mohammedans. Rubruguis has left some interesting accounts of the Mongols, and of their capital. In fact, he may be said to be the first European who from personal knowledge, given any count whatever of the great countries which the ancients distinguished by the vague name of Scythia, and of which very little has been gleaned from the works of the Arabian geographers. He recognized the identity of the Huns, Bashkirs, and the Hungarians, with the Fin, or Uralian type. He found Gothic tribes still preserving their language in the fastnesses of the Crimea. Twenty-five years after Rubru-guis, the celebrated traveller, Marco Polo, also travelled in central Asia and Mongolia. Ho resided for a period at the court of Kublai Khan the conqueror of China, by whom he was held in great estimation. He was employed by that sovereign in various ways, and was governor of the province of Kiang Nan. Marco Polo has carned the reputation of the Herodotus of the middle ages, and from him we have an admirable account of central Asia, China, and India, the correctness of which, though once doubted, has been amply confirmed by modern travellers. Great part is derived from his own personal recollec-tions, the rest from compilation and information, in which it is thought by orientalists that he borrows from the Chinese writers, especially the travels of Hinan Tsang, a Buddhist pil-grim of the 7th century. The communications opened with central Asia by the spread of the Mongol empire from Moscow to the eastern shores of A ia, and the information brought to Europe by Rubruguis and Marco Polo, served to increase the yearnings for participation in the fabulous wealth of the East. These led to

the discovery of the Cape of Good Hop Bernardo Diaz, and the sea passage to Indi Vasco da Gama in the 15th century.—Be that epoch, however, some not unimper political changes had taken place in wer Asia. The vast Mongolian empire of Genhad, after a few generations, crumbled as The tribes from whom the guards of the the and person of the caliphs had been driven from their native plains by the Mos had assumed the position of independent a querors, and had founded the Ottoman empi In 1299 Othman led his followers into the cient province of Bithynia, nearly oppo zantium, and made Broussa his capital. It able and energetic Amerath, and his terrilison Bajazet, seen overran the provinces Asia Minor, and crossing into Europe, po themselves of the Byzantian province new invasion of the Mongols, no less no less fe its accompaniments than the former, no over Asia. Tamerlane had conceived the of restoring the empire of Genghis. Se hordes in motion, he passed like an av whirlwind from the wall of China shores of the Mediterranean, smiting and crushing every nation and dynasty opposed his progress. For a short pe Mongol and Ottoman stood face to fa two such neighbors could not lon quiescent. Their vast forces met on t of Angora (A. D. 1402), to contend empire of the world. The forces of are said to have numbered 500,000 fmen, while Tamerlane's masses were still Bajazet suffered a most and was himself taken numerous. overthrow, But the Ottoman power, though shar not broken. The vigor of Amurath stored it, and in 1458, his successor, I med II., rode through the breach into C tinople, after one of the most terrible valiant defences recorded in his der Solyman the Magnificent (A. D. 184 the Ottoman empire reached its present is Asia, comprising Asia Minor, Syria, as far as the Tigris, and Arabia. a century after the permanent e Mohammedanism in Constantinople, Be Diaz doubled the Cape of Good Hope 1486). Three years afterward, Vasse di arrived at Calicut, on the coast of Hope Calicut, and on his measure. Calicut, and on his return, Almeid cessor, Albuquerque, were sent of which had belonged to the rajah of was be-leged and captured (A. D. became the capital of the Portugi in the East. At this period, so proin the East. At this person, so a political consequences to Asia in the hands of a Chinese dy had been established in 1257 by the first the Tartar descendants of I In central Asia the empire of Tarapidly broken up. The thrones of Kel

irrected their operations, and in 50 years masters of the Spice islands, and monopothe whole trade of the eastern ocean; Mogula themselves purchasing from the gaese the productions which they brought more distant parts. The subjugation of sara India by the emperor Baber in 1527, a succession of able princes, Humaiyoun, r, Jehangir, Shah Jehan, and Aurungzebe, lidated the empire of the Moguls in India. s the Great, the shah of Persia, was con-wary with Aurungzebe, and raised the mpire to its highest pitch of modern neas, while the vigorous opposition which maintained against the power of the Ottocompelled them to turn their attention

stern territories. Europe owed a

the from the sultan's conquering arms, ag this reign a battle between the Persians the Usbecks took place near Herat, in the Usbeck power was broken and seen relieved from their incursions.—The

are India, and had already commenced arear of action and enterprise which rein the accomplishment of his great design.

The first of the Sufi dynasty had just hed the throne: the promoter of those residifferences of Soonnees and Sheeahs have proved the source of irreconcilable y between Turk and Persian. The Portuness artended their relations with the

acon extended their relations with the tents and princes of the Deccan, and querque directed a successful expedition at Malacca, where he received the submis-

l Ormus at the mouth of the Persian gulf.
18, in consequence of his reports, an em-

was sent to China which was well rel; and the Portuguese, having been formough to gain the favor of the court of by extirpating a band of pirates that in-

e coast, permission was given them is in the country, and Macao was assigned endence. From this point and from Goa

He also

of the keys of Pegu and Siam.

was founded by the East India company, in 1645 the factory which formed the foundation of Calcutta was established, and in 1664-'5, after or Calcutta was established, and in 1002-0, area contest with the Portuguese, they succeeded in getting possession of the island of Bombay. The conclusion of the reign of Aurungzebe and the commencement of the 18th century was marked by the first appearance of the Mahratta powers, a confederation of Hindoo chiefs in India. At the same period the English East India company, which had been unsuccessful as a trading undertaking, was reorganized, and in 1708 a new body of adventurers was formed, and admitted to a participation in its rights and privileges. This body was destined before the lapse of a century to acquire and consolidate a larger and more powerful empire than had ever been governed by the Moguls in India. Other European trading companies beside the English and Portuguese had also obtained a footing in India. The Dutch, after their emancipation from the Spanish dominion, had applied all their energies to foreign commerce and to the formetion of foreign actions. and to the formation of foreign settlements. In this they had been eminently successful. The French under the fostering care of Colbert sent out adventurers, and opened a direct trade with the Indies. All these European settlements entertained the deepest jealousy of each other, and self-defence, both from each other and from the native power, compelled them to keep up some degree of military force. The Portuguese indeed were under the dominion of a vicercy, who surrounded himself with all the pomp and state of a native prince. In 1715 a deputation went from the English company to the court of Delhi in reference to some conces-It happened that the emperor Feroksions. sheer, the great grandson of Aurungzebe, was seized with a severe illness. Dr. Hamilton, a physician to the company, cured the emperor of his malady, which had baffled the skill, or rather ignorance, of the court physician. In grati e the emperor, at Dr. Hamilton's re-

Mogul emperor had suppressed, reappeared, and the vast territory was torn to pieces by internal dissensions. The position of affairs in India in 1750 is thus described by an eloquent living writer: "A series of nominal sovereigns, sunk in indolence and debauchery, sauntered away life in secluded palaces, chewing bang, fondling concubines, and listening to buffoons. A series of ferocious invaders had descended through the western nasses, to prev on the defenceless wealth of passes, to prey on the defenceless wealth of Hindostan. A Persian conqueror crossed the Indus, marched through the gates of Delhi, and bore away in triumph those treasures of which the magnificence had astounded Roe and Bernier; the peacock throne on which the richest jewels of Golconda had been disposed by the most skilfel bands of Ferrange. richest jewels of Golconda had been disposed by the most skilful hands of Europe, and among others the inestimable 'mountain of light.' The Afghan soon followed to complete the work of devastation which the Persian had begun. The warlike tribes of Rajpoots threw off the Musulman yoke. A band of the Musulman to be the standard of the Musulman of the threw off the Mussulman yoke. A band of mercenary soldiers occupied Rohilcund. The Sikhs ruled on the Indus. The Jauts spread terror along the Junnah. The high lands which border on the sea-coast of India poured forth a yet more formidable race—a race which was long the terror of every native power, and which yielded only after many desperate and doubtful struggles to the fortune and genius of England. It was under the reign of Aurungzobe that this wild class of plunderers first descended from the mountains; and soon after his death every corner of his wide empire after his death every corner of his wide empire learned to tremble at the mighty name of the Mahrattas. Many fertile viceroyalties were entirely subdued by them. Their dominions stretched across the peninsula from sea to sea. Their captains reigned at Poonsh, at Gaulior, in Guzerat, in Berar, and in Tanjore. Nor did they, though they had become great sovereigns therefore cease to be freehooters. They still retained the predatory habits of their forefathers, tained the predatory habits of their forefathers.

Every region that was not subject to their rule was wasted by their incursions. In 1746, war having broken out between England and France, Labourdonnais, the French governor of the Mauritius, conducted an expedition against Madras, the chief British settlement in India, which capitulated on the understanding that it should be ransomed. Dupleix, governor of the French settlement of Pondicherry, had other views. He had conceived the ambitious scheme of consolidating the states of Hindostan into one mighty empire, of which he himself should be the prime head and governor. This scheme involved the destruction of the British settleinvolved the destruction of the British settle-ments, and accordingly at the instigation of the natives secretly promoted by himself, he re-moved the English authorities and proceeded to carry his great schemes into accomplishment, always under the excuse of supporting a native local interest. The first movements of the French and their native allies were completely successful. English interests were on the verge

genius of Robert Clive saved with a couple of hundred Euro Sepoys. He attacked and car Sepoys. He attacked and care Arcot, which he held against th of the allies. Dupleix was not management of operations in th to native commanders. Clive, to the civil service, was, as a cor "born a soldier," compelled I raise the siege. This decided th Once launched on the tide of vic of merest expediency prevente from retracing their steps or a vantage proffered by circumsta years the French power was a by the year 1760 a partnershi England had subdued the fine Bengal, Bahar, and part of Or in manufacturing towns posses mense population and yielding revenue. From that time th British empire in India have g increasing with but few revet Tippoo Saib, and the Mahrattas enemies which they had to me The battles of Plassey and Ass periority of European discipline periority of European discipline lar forces, however brave.—Tu progress of European power in we direct our attention to the n already seen that on the first Mongols, the Russians were tribute to the Golden Horde. Terrible had rescued the nation recrible had rescued the nation graceful servitude, it happened chief, Jermack, having been ar demned to death for his crime leased, to extend the dominiot Asia. The conditions were acmack, at the head of his Confidence and h Siberia, and in a battle fough established himself, and gradu northern Asia under Russian a comprehensive intellect of Pete the means of extending Russian navigated the Volga, and apprec which the Caspian might be ap relations with central Asia was formed with the shah of 1722 Peter led an army through the Caucasus to the assistant against the Afghan invaders. obtained in central Asia by tl never been relinquished. By der the still more dangerous me the court of Russia has main on the feeble court of Tehers even concocted with Turkey, even concerned with Turkey, enemy of Persia, for the disman Persian kingdom, but this was sudden vigor and energy of the Shah, who for a brief space re ing glories of the Persian name Indus pursued a career of con Delhi. During the return of

of ruin when the daring course

s murdered by some her, he was murdered by some and again the Persian empire was ad, —Afghanistan being erected into indent kingdom, by Ahmed, one of the contury the Mahratta war in India Residual extension. On the conclusion British attention. On the conclusion to consolidation of the empire by the s of native governments was sucr with China, Afghanistan, and Sinde, n place, and vast extension of territory the last extension of territory ited. Important changes will no doubt mon the suppression of the great Bengal of 1857, which is not yet concluded article goes to press.—In northern and the Russians have been occupied the continue to account the continuent the continuent the continuent the continuent the continuent th the present century in organizing the ftheir government, and fortifying their power the native tribes, especially in and in Mantchooria, where they have skee possession of the valley of the Permanent routes of communication established between Europe and by land and water. The intellisich was formerly communicated from D China in 6 months, more frequently is now regularly transmitted every and occupies 2 months, while the of the exclusive trading privileges of the excusive training privinges ast India company, has opened the with of Asia to the commerce of i, in which the United States has ad a formidable competitor. The intribution of Asia is precisely what re been expected from the configuration and the natural barriers. he surface, and the natural barriers al communication. The same genical outlines which have obtained wn centuries, still obtain—dynasties and fallen, conquerors have appeared peared, like fiery exhalations, but the olitical divisions, stamped by nature sed by the unalterable character of the ill remain. The drainage areas, the d lowlands, the climatology, which passed in brief review, have deterpermanent kingdoms and empires of have affixed to them that character lity which, contrasted with the mothings eastern with a perennial and character. The Russian, Chinese, rkish, and Persian dominions, occupy of Asia. Turkey and Persia divide rn plateaus of Iran and Arabia. pire occupies the plains and uplands south of the Himalaya and Hindoo The Chinese dominions include the mds of China proper, with a part of a plateau, while Russia rules over the lowlands and a great part of the tribes. Central Asia is under no nt worthy of being so called. Of g tribes, the Kirgheez Tartars are of absorption by the Russians. The

Mongols acknowledge a limited allegiance to China. Thibet, under its peculiar priest-government, is also under nominal subjection to the Chinese. The only really independent sovereign in independent Tartary is the savage and sanguinary despot of Bokhara. The peninsula of Indo-China is divided into the kingdoms of Burmah and Siam. The political influences of Asia are balanced by British supremacy in the south, and Russian in the north. The 2 great powers have long antagonized each other at the court of Persia, the key to central Asia and northern India. The deserts of Khiva, long thought impassable, have been traversed by the untiring perseverance of Russian generals; and a permaperseverance of Russian generals; and a permanent footing has been obtained for Russia in nent footing has been obtained for Russia in the provinces to the south of the Caspian, and in eastern Persia by treaty concluded in 1857. In China, too, Russian influence is greater than that of any other nation. The Chinese voluntarily exclude themselves from interest in Asiatic politics; but internal wars in that kingdom may yet produce a renewal of those tremendous movements which we have seen affect the remotest borders of Europe. In the west, Turkey holds nominal power over Arabia; but so entirely nominal is it, that she cannot protect the caravans of pilgrims to Mecca without the aid of the viceroy of Egypt. Her influence, therefore, in Asiatic affairs, is a cypher. The empire of the east, with all its concatenation of high interests to mankind, lies between Great Britain and Russia.

ASIA MINOR. See ANATOLIA.

ASIATIC SOCIETIES. See Society.

ASIATIO SOCIETIES. See SOCIETY.
ASIMAGOMY, a large lake in Upper Canada, in lat. 48° 35′ N. long. 85° 30′; length 12 miles; average breadth 3 miles; it discharges into Lake Superior.
ASINARI, FEDERICO, conte de Camerano, an Italian warrior and poet a matina of Anti-in

an Italian warrior and poet, a native of Asti in Piedmont, flourished in the middle of the 16th century. His tragedy *Il Tancredi* is considered one of the best Italian tragedies. It was first published under the title of Gismunda, and erroneously attributed to Torquato Tasso.
ASIOLI, BONIFAZIO, an Italian composer of

ASIOLI, Bonifazio, an Italian composer of music, born at Corregio about the year 1769. As a boy he was precocious, and at 8 years of age composed without instruction. In 1799, after a successful career in Turin, Venice, and other Italian cities, he established himself in Milan, as musical director to the viceroy, and remained there for about 14 years. He was a good moledist good melodist

ASIRMINTAR, an active volcano, in the island of Onekotan, one of the most northerly of the Koorile islands, lat. 49° 40' N. long. 155°

ASKELÖF, Johan Kristofer, a Swedish journalist, born in 1787, began life as employee in the public service, after having graduated as doctor of philosophy at the university of Lund. In the *Polyphem*, a weekly paper, which he founded in 1809, and conducted till 1812,

he opposed the Gallic tendency of the so-called classical or academical school, and thus contributed in some measure to nationalize Swedish literature. From 1812 to 1821 we find him engaged in various capacities in the service of Sweden. His last achievement in the latter year in connection with a convoy of corn to Italy failed to give satisfaction. He was connected with journalism in 1815 and 1816 as editor of the Liftet och Doden, and in the subsequent year as conductor of a political periodical, in which he had Count Schwerin, and other eminent public men for collaborators. His editorial fame was, however, chiefly due to his conduct of a partisan journal, known since 1829 under the name of Scenska Minerca, which, owing to his intimacy with the members of the Swedish cabinet, contained accurate and trustworthy accounts of the ministerial movements, and of political affairs generally. In 1840, however, when a new ministry uncongenial to Askelôt's royalistic partisanship came into office, his paper lost its official flavor.

ASKEW, ANNE, whose name is sometimes spelled Ascough, or Ascue, an English Protestant lady, who was burned at Smithfield, July 16, 1846. She was a native of Lincolnshire, and with superior intellectual culture, had read and

ASKEW, ANNE, whose name is sometimes spelled Ascough, or Ascue, an English Protestant lady, who was burned at Smithfield, July 16, 1646. She was a native of Lincolnshire, and with superior intellectual culture, had read and studied the Scripturea, and espoused the reformed opinions. Her husband, named Kyme, was a strong Catholic, and turned her out of doors. She went to London to sue for a separation, and attracted the sympathy of the queen, Catharine Parr, and many of the court ladies. Her denial of the corporeal presence of Christ's body in the euclarist caused her arrest and committal to prison. When examined before the lord chancellor Wriothesley, Bonner, bishop of London, and the lord-mayor of that city, she was asked, Whether the priests cannot make the body of Christ's She answered, "I have read that God made man, but that man can make God I have never yet read." Yet Burnet says, that after much pains she signed a recantation acknowledging that the natural body of Christ was present in the sacrament after were a man of holy or of evil life. Her recantation did not save her. She was recommitted to Newgate, and asked to disclose who were her correspondents at court. She refused to reply, and was racked in the presence of the lord chanceller, but would disclose nothing. Her fortitude probably saved the life of the queen. As she was not able to stand after the torture she was carried in a chair to the stake, and suffered along with four others. She underwent this last trial with the same courage as the former.

the former.

ASLAN, or Aschani, or Aslani, the name given to the Dutch dollar in most parts of the Levant. The word is of Turkish origin and signifies a lion, which is the figure stamped on this coin.

ASMANNSHAUSEN, a village on the Rhine in the duchy of Nassau, and in the borough of

Radesheim, of 600 inhabitanta. It is the wine of Asmannshaueen, one red Rhenish wines. Some judges Burgundy. Its value lasts only 3 or

Burgundy. Its value lasts only 3 or ASMODÆUS, or Asmoon, in Heb demon, who is mentioned in the h writers. In the book of Tobit he is as murdering the 7 husbands of 8a ter the other. In consequence of been facetiously termed the evil spriage, or the demon of divorce. I mud he is called the prince of desaid to have driven King Solomon kingdom. Tobit got rid of him by fasting. Asmodæus is the hero of novel Le diable boiteux.

ASMONEANS, a family of kings 1

over the Jews 126 years. From the Ptolemies Judses passed (198 I the rule of the Syrian kings, in the Antiochus the Great. At his dest ernment fell into the hands of his ernment tell into the hands of his ochus Epiphanes. The intrigues is of the high-priesthood (in couseque political power attached to it by Antiochus, who had made the high curator of the province) resulted is insurrection. This so incensed Antis anes, that he resolved on crushi tico-religious importance of the Jince. He therefore not only put insurrection with great slanghter, be complete demolition of the insecuse, ordered that the Jews abo their monotheistic worship and adcations and offer sacrifices to Jupia whose statue he had caused to he a altar in the temple. This offence This of d a violent popular resistance Mattathias great grandson of Ass the result. Here is the beginning or nean dynasty, though, in the perso thias and his 4 elder sons, it is style cabean dynasty, while the Asmose considered as cummanding in Local considered as commencing in Jones son, because under him first, in co an alliance with Rome, did the an alliance with Rome, did the Judma enjoy an established indepen Syrian power. The Asmonsan at scended through a moscosion of ruled with greater or less success, II. He was supplanted by Hered who had so ingratisted himself is of Casar, that he received the agg Judge as a Roman province, and destroy the Asmonesa e Mariamne, the granddaught appointed Aristobulus III. appointed Ariscoulins III., been the Asmonean heir, farring the influence caused him to be drowned, B. C.) the Asmonean line, a under the Roman power. lengthened it of this p is also a the appendix

he Jews enjoyed much prosperity

the god of the river Asopus in was a son of Oceanus, or Nep-was married to Metope, the daughter inver-deity, by whom he had 2 sons aghters.

me given to more than one species somous serpents. By naturalists, it is to the eipera appi, which is a native ropean Alps. The historical asp, with sopara is believed to have destroyed the death of Antony

Deliberată morte ferocior, svis liburais scilicet invidens Privata deduci superbo, Son humilis mulier, triumpho

r supposed to have been the cerastes more especially from the description the evident that the asp of the Roa generally—and it is, therefore, to at the asp of Cleopatra—is the com-lebrated Egyptian species, the nais a, hajo naschor, of the modern Arabs.

ly reptile, which is a close congener
the nag of the Hindoos, nais tripusobradi capello of the Asiatic Portuchosen by the ancient Egyptians as a of the good deity, Cneph, and as if regal dignity. The front of the majority of the statues of the Egypmade kings, is adorned with this ser-Devon's figure, with the forepart the wood expanded, represents it appears on the sculptured stone." rable that the nais still worshipped the temples in India, where the lieve that, in sagacity and the macity with which this serpent treaswrong to avenge it, it is in nowise a man. This would alone be enough the sacred nais of Egypt with the of Hindostan; particularly when it and that very strong reasons exist as the superstition of the ancient and the modern Hindoos to be almost, icely, the same. In proof of which, direct that the Hindoos of Sir David my, who landed from the Persian operate with Abercrombie against Beutenants, when they beheld the and the ruined Egyptian shrines at d Thebes, acknowledged them for gods, and worshipped them. The of Pliny, however, while it idention of the Roman writers unmistakate hooded et haje, is doubly curious to the story of its tonesious meno. to the story of its tenacious memo-asuring up of wrong; which belief ore, continued unchanged since his ps since the day when the magicians converted their serpents into rods es—a trick resembling which is still the this very asp, by the serpent-of the present time, who have the

power of throwing it into a cataleptic state, during which it is as rigid and immovable as a wand. The passage of Pliny is as follows: "The neck of the asp is capable of distension, and the only remedy against the bite is the im-mediate amputation of the wounded part. This animal, otherwise so much to be dreaded, has a animal, otherwise so much to be dreaded, has a sentiment, or rather a kind of affection, truly wonderful. It never lives alone, the male and female being constantly found together; and if one happens to be killed, the other seeks with the utmost fury to avenge its death. It knows and selects the destroyer from among crowds, and selects the destroyer from among crowns it follows him to great distances, surmounts every obstacle, and can only be deprived of its revenge by the most speedy flight, or the intervention of some rapid river." Nor will it be altogether well for modern philosophers, or for those moderns who deem it philosophy to deny whatsoever they do not understand, too much to ridicule the statement of the old naturalist. Not only because it is at least worth the while to investigate, before discussing, the truth of a story which has endured unchanged for nearly story which has endured unchanged for nearly 18 centuries, and which exists, in the same form, in the most remote parts of the world, but because stories of old writers, long held in contempt as fables, have often been proved to be most true; and because—more pertinently—some strange facts have recently come to light concerning the manner in which serpents will instinctively find the way to the place where their mates have been killed, and of the nunatural affection which they retain for their unnatural affection which they retain for their carcasses. The el haje, naia haje, or haje nascher, is of a dark and greenish hue marked with brownish, is hooded like the cobra, when it expands itself in rage, but wants the peculiar mark on the back of the neck which characterizes the Asiatic species, and which has been compared to a pair of spectacles. It varies in length from 3 to 5 feet, and is one of the dead-liest serpents known. The bite produces acute local pain in the first instance; then a sense of deadly sickness; after which the sufferer falls into a comatose state, with convulsive fits, each less violent than the preceding one. last of these he dies, usually not many minutes after being struck; although that must in some degree depend on the nature of the tissue wounded. Owing to the almost instantaneous dispersion of the poison through the blood, it is not believed that excision could be of the slightest utility; nor is there any certain anti-dote known, against the deadly fluid, when once introduced into the veins. When she was bent on dying, Cleopatra could scarcely have found a

surer or more painless agent.
ASPARAGUS (Gr. σπαρασσω, to tear), a genus of perennial plants, deriving their name from the prickles with which some of its spe-cies are furnished, belonging to the natural or-der of the *liliacea*, to the sub-order of the asparagee, and differing only in the fruit from the asphodelee. The genus is distinguished by tuberous root-stocks, branching stems, thread-

like leaves, jointed pedicels, a 6-parted perianth, small greenish-yellow or white flowers, and a spherical berry. It embraces 26 species, many of which become hardy shrubs, and climb with their spiny branches as if by tendrils. A few of them are common in the East Indies, and around the Mediterranear; most of them are rare and of little importance, and none are natives of this country. Of the wild species, the most widely spread are the acutifolius and the albus, the needle-leaved, and the white, the former of which is common in France, Spain, Barbary, and the Levant; the latter is found in the same countries, France excepted, and is remarkable for its white and flexuous boughs in the midst of its green and caducous leaves; and the young shoots of both of them are eaten by the Arabs and Moors. But much the best known member of the genus is the officinalis, the common or garden asparagus, esteemed as a delicate culinary herb from the time of the ancient Greeks, and now cultivated in nearly all the gardens of Europe and America. It is thought to be native both on the shores of England and in rocky and sterile districts in Europe and Asia, and when it has attained its full development, is an elegant plant, from 8 to 4 feet high, with numerous branches loaded with fine and delicate leaves, and covered with small, greenish-yellow, bell-shaped, and almost solitary flowers. The asparagus served upon the table is the young and tender shoots of the plant, cut when but a few inches from the ground, and prior to ramification. It loves a dry, deep, and powerfully manured soil, and is raised from seeds either planted in seed-beds in the spring and transplanted the next year, or planted at first where they are to remain. During the first 2 years the young heads should not be cut; half of them may be cut in the third, and after half of them may be cut in the third, and after that the full crop. The supply will begin to diminish after 10 or 12 years. The beds for asparagus are usually about 4 feet broad, and should be manured and trenched at least 21 feet The plants are in rows about a apart, and are thinned out till they stand about inches from each other in the row, in growing a cluster of heads branch from each root. The crop may be reaped as often as it appears, being cut from a little below the surit appears, tengent from a little below the sur-face of the ground, yet the plant degenerates by being cut late in the season. The bed should be annually, in the autumn, replenished with manure, dug in between the rows as deeply as possible without injuring the roots, and covered with pulverized manus, sea-weed, or other little during the winter are a metaling. or other litter during the winter, as a protection from the frost. Asparagus is easily forced by the use of hot-beds, but the process of transplanting always injures or destroys the roots, and if, instead of transplanting, the bed be covcred and the trenches filled with hot dung, which mode is sufficient to forward the crop one or two weeks, care must be taken to give the plants time to rest, and recover in the later part of the season.

ASPASIA, born in Miletus, was a of Axiochus, and one of the most of Axiochus, and one of the most of women in the most brilliant times of and Greece. She united to beauty and grace a great and varied culture of m was devoted to politics and oratory. It in Athens was the rendezvous of a prominent and gifted men. Socrate her often, and in the dialogues of Plate, puts into the mouth of Aspasia the leditures appears made before obituary speech made before Menen is said that she taught Pericles the oratory. A deep and unsummed the both. When Pericles was surnamed the both. When Pericles was surrous pian Zeus, Aspasia was called Hera. Pericles separated from his wife and Aspasia. The enemies of Pericles, at the compact her of having all Aristophanes, accused her of having ted by her influence the war with the and the Peloponnesian war. Plutare this, and Thucydides does not me name in connection with the subj opponents of Pericles publicly accurate of contempt toward the gods. Periods. of contempt toward the gods. Perick ed her before the judges and won life had a son by her, and after a Aspasia married Lysicles, a cattle dea by her influence and the life had a son by her influence and th by her influence, soon became a very man in Athens. In antiquity her name to describe the most charming wom Athens foreign born women w outlawed, and their children, even lawful marriage, were considered as its Aspasia is often included in the celebrated courtesans.

ASI'ASIE (CARLEMICKLI), born in 1 cuted in 1795, one of the most terrib terrible women of the French reign of the was believed to have been in asylum, almost from her childhood with time of the outbreak of the revolution of the carcity ficially produced, in order to starve the She yearned for vengeance, and, after made several ineffectual attempts to a Boissy d'Anglas, the temporary produced of the famine, she put hereal, on the rial, 1795, brandishing a knife in he the head of the infuriated women up the hall of the convention. They family himself from the ground upon which been thrown by the ball, Aspanie was cloudly upon the unfortunate men, it has head with her wooden shoes, it shouts and frantic cheers of the other making the bewildering explaints.

Bisamberg, celebrated for the 2 days' terrible

A P Med

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(sakin-bearers) Juss., discia cetandria L. ament ylindric, scales lacerate, perianth turbinate, oblique, entire, anthers 8 to 30; female flower; stigma 4 cleft, capsule superior, 2 celled, 2 talved, many-seeded; seeds pappous. The aspen belongs to Lindley's order salicaces (willows). Of about 40 species of populus, belonging to Europe and North America, the aspen turnishes 3, viz.: P. tremula, leaf-lobes much developed, teeth distant, smooth on both sides, patioles long, vertically compressed, hence tremdeveloped, teeth distant, smooth on both sides, petioles long, vertically compressed, hence trembing in the faintest breeze; bark gray or greenish; roots trailing in long shoots; easily propagated, especially in sandy soil; wood white, soft, employed for small utensils, burning rapidly with little heat; the bark contains tannin; indigenous in Europe. P. tremuloides, indigenous in North America; resembles the preceding, but its leaves are smaller, suborbiculate abruntly acuminate serrulate, pubescent, late, abruptly acuminate, serrulate, pubescent, and glandulous at the margin; wood light, used times for summer hats; west of the Mississippi in scanty groups, in narrow valleys, near springs, it is smaller than in the north and middle states, where it grows to about 20 feet. P. grandidatata (the American large aspen), leaves oval-acuminate, unequally and sinuously great-toothed, almost glandless, smooth on both adds, villous when young; bark smooth, greenish, unbroken; rare in the middle states. All species of populus contain more or less of the febrifuge alkaloid called salicine. The buds of

many are coated over with a balsamic resinous matter, especially the *P. balsamifera* or tacamalacs of Siberia and Canada, and candicans (balm of Gilead).

ASPERN and ESSLING, a town and village to the north side of the Danube, the former shout half a league, the latter about 2 leagues below Vienna, situated on the great meadowy plain of the Marchfield, extending from the fiver to the wooded mountain heights of the

fighting between the French and Austrians, on May 21 and 22, 1809, and the first defeat of the May 21 and 22, 1809, and the first defeat of the emperor Napoleon, who was here beaten and forced to retreat by the archduke Charles.—In the early part of the campaign, Napoleon, with the grand army, had made his way through the Tyrol, up the rivers Inn and Iser; had defeated the archduke at Eckmüll; forced had a across the Danube, into the mountains of Batemia, at Ratisbon, which he took by assault, thus interposing between the Austrian army and capital; and then, detaching Davoust with 40,000 men to amuse the imperial general, had descended the Danube, and made himself master of Vienna; while from the Italian side his lieutenants, Eugene Beauharnois, and Macdonald, were advancing victoriously through Dalmatia, Carniola, and up the valley of the Muhr, in which Jellachich was severely defeated, to join their on the earth, whereby their good or bad influence is measured." commander. In the mean time, the archduke Charles, who since his defeat at Eckmuhl had been moving slowly down the river, on the northern side, hoping for an opportunity to fight at advantage and rescue the empire under the walls of the conital itself took poet with ASPEN, a species of the great genus populus (arbor populi), being planted in public places by the Romans) or popular, of the family amentaces (tarkin-bearers) Juss., discia octandria L. ament the walls of the capital itself, took post with his army on the Bisamberg, over against the island of Lobau, and another smaller islet, which here divide the Danube into 4 channels. —The archduke was at the head of 100,000/c men, and was in hourly expectation of being joined by his brother, the archduke John, with 40,000 more, which would have been raised to 60,000, had that prince effected his junction, as he was explicitly ordered to do, with Kolow-rat at Lintz, and which would have occupied rat at Lintz, and which would have occupied a most commanding position in the rear of Napoleon, and on the principal line of his communications.—It was Napoleon's object, who had concentrated under his own orders 80,000 admirable soldiers ready to take the field, including the imperial guard and the reserve cavalry Bessières, to cross the Danube and give bat tle to the archduke, in the hope of crushing him before the arrival of his reinforcements. To this intent, he bridged the river from the right bank to the island of Lobau, with a structure of most solid materials, supported on 68 large boats and 9 huge rafts, and from Lobau to harge tooks and a nugerates, and from Lobato the Marchfield, midway between the villages of Aspern and Essling, with a slighter fabric of pontoons; and on the morning of the 21st began to pass his troops across, with the utmost alacrity and diligence. The Austrian commandates the marchine mental provision provision the provision of the commandates and the state of th er, from his mountain position, perceived the rashness of the manœuvre, by which the em-peror was pushing his vast host across a wide and rapid river, by means of a single bridge, which could only admit of a slow and gradual defiling of the men of all arms, over its long and narrow causeway, difficult to cavalry, yet more difficult to artillery; and which, in case of his being forced to retreat, scarcely offered a possibility of saving the arms; and paractions possibility of saving the army; and perceiving it, resolved at once to avail himself of the opportunity of crushing half the French host on 222 ASPERN

the northern bank, while the rest of the army was either in the act of passing, or on the southern side. Sending orders to Kolowrat, southern side. Nordman, and the other officers in command up the river, to prepare boats laden with heavy materials and combustibles for the destruction of the bridges, when the time should arrive, the archdula kept his great army out of sight, ordering is cavalry and outposts only to make a noming resistance, and then to fall back before the advance of the French, which was led Massena; until at 12 o'clock the movement of the enemy was sufficiently developed, above 40,000 French being already on the northern shore—to justify his assuming the initiative. shore—to justify his assuming the interactive. At that hour, descending from the wooded heights of the Bisamberg, with \$0,000 men, of whom 14,000 were splendid cavalry, and 288 cannons, he precipitated himself upon the enemy, making the 2 villages of Aspern and Essling, on Napoleon's flanks, the principal points of his arready the central stace between these of his attack; the central space between the-2 strong places, which were built of stone, with 2 strong places, which were built of stone, with garden walls and many enclosures, was occu-pied by the tremendous Austrian batteries, guarded chiefly by cavalry, with Hohenzollern's infantry in reserve in the rear. The fighting on both the flank attacks was terrific, and the fury of the assaults and obstinacy of the defence almost unparalleled in the history of war. Both villages were taken and retaken several times, and so terribly did the Austrian artillery devastate the French lines, that Napoleon or-dered a grand charge of cavalry to take the batteries, if possible. The superb French cuirassiers of the guard charged with their usual impetuous valor, routed the Austrian horse, and would have carried the guns, but that they were hastily withdrawn, and the infantry formed in squares, which, as at Waterioo afterward, defied all attempts to break their impenetrable formation, and at last defeated the horse, and compelled them to retire, shattered and decimated, into their own lines, mean time, Aspern was taken by the imperialists, their centre was gradually but irresistibly gaining ground, in spite of the gallant devotion of the cuirassiers, who charged again and again with constantly diminishing numbers, and who alone prevented the French lines from being broken through.—Night brought a brief cessa-tion of the strife; but the French had suffered a decided defeat in a pitched battle; their left flank was turned, their centre forced back almost to the bridges; and although Essling, on their right, had been defended by the gallantry of Lannes, it was surrounded by the Austrians, who slept on their arms among the French dead, waiting only the return of light to renew their offensive operations of During the whole night, however, fresh forces were defiling across the bridges, and debouching upon the March-field, and at daybreak, after all the losses of the preceding day. Napoleon had full 70,000 men in line, while Dayoust was beginning to cross over at the head of 50,000 more. The battle began

by renewed attacks on the two dispulares; Essling was carried by the impand Aspern retaken by the French. I lages were the scene of desperate fig. day long, and both were taken and ret eral times with the bayonet, but at h mained in the hands of the Austrians, v the evening, advanced their artillery l the rear of the French. But during bloody conflicts, Napoleon, who was reby his vast accession of forces from the sity of acting on the defensive, had reco his favorite manocuvre of an overwhelm tack on the centre. At the head of a column of above 20,000 infantry, with 31 non preceding them, and a tremendous t force in their rear, he launched Lann Ondinot directly on the Austrian centre, the lines appeared the weakest, left of Hohenzollern and the right of berg. At first, this tremendous attack to be perfectly successful; the Austria were forced; a huge gap made between berg and Hohenzollern, into which the burst with appalling fury, and cut the clear through to the reserves of the pr Reuss, far in the rear; and already t went abroad, that the battle was lost; I archduke Charles was equal to the en the reserve grenadiers were brought double quick time, and formed in a che squares; the numerous dragoons of Lichtenstein came galloping up behind and, with the colors of Zach's corps in l hand, the gallant prince restored The terrific column of Lannes could advi further, but halting, began to exchange with the squares, and, unable to d crushed by the concentrated fire teries, playing on it at half musket at vain the cavalry charged home on the b of the squares, for not a square wavered broken; and, at length, the Austrian of the reserve, coming up with lond charged the cuirassiers in their turn, them, and drove them in confusion has their infantry, and completed the Immediately after this repulse, Hol broke through the French lines on the the centre with 6 Hungarian regrenadiers, and carried all before to the rear of Essling, which, wis were both carried finally by the is From these villages, as the Austrian From these villages, as the Austrian now driving all before it, in spite of alleled exertions of the French ar was now in full retreat to the i the Austrian batteries crossed their fatal effect, on the bridges, every shot the crowded masses of men and borse while, to augment the perils of the Fre bridge connecting the island with the shore was broken by the Amstrian ar rafts, and all escape from the isl dered, for the me at, impos

the manipled firmness the rear-guard of the least held the Austrians in check, until, at likely, the last of the enemy having withwar from the field of battle into the island, thunder of the Austrian batteries ceased, if the exhausted artillerists fell asleep beside air guns, worn out by the fatigues of that untalled and glorious day.—Seven thousand were havied on the field of hettle by sch were buried on the field of battle by victors; 29,798 were carried, wounded and longer, into Vienna. Lannes and St. Hilaire mortally wounded, and died a few days longer ward. On the side of the imperialists, 87 rward. On the side of the imperiouses, or wior officers, and 4,200 privates, were d; beside 16,300 wounded. But the victo-gained under the very walls, and almost him sight of the capital, was complete; the my, broken, defeated, and dispirited, were my, broken, defeated, and dispirited, were ben, and, had the archduke John, in obedi-ce to his orders, made his appearance in the ar of the French with 60,000 fresh men, on morning following the defeat of Aspern, it are difficult to say what might not have been result.—But Napoleon's time had not yet zived, and the nations were yet doomed to the final downfall the military colossus should restore them to ir lost freedom, by the fields of Leipsic and eterioo

ASPHALTITES. See DEAD SEA.

ASPHALTUM, also called mineral pitch, mpact bitumen, and Jews' pitch, the last the given it from its abundance in the has Asphaltites or Dead sea of Judgea. It cans of the series of substances resulting from changes which vegetable matters buried the earth have undergone. It is more bituis the earth have undergone. It is more bituminous than the coals, and when pure is of the consistence of resin—but this varies with the imperature and with the amount of liquid itumen or petroleum, which may be mixed with it, holding the more solid asphaltum in It is, moreover, often intermixed with noite les stony substances, and is even known to contain 80 per cent. of carbonate of lime. Pure asphaltum is insoluble in water, alcohol dissolves out of it about 5 per cent. of a resinous substance, nd ether takes up 20 per cent. of another resin, that is not affected by the last is a substance named by M. Boussingault, asphaltene, the composition of which is C₂₀, H₁₆, O₃. Asphaltum burns readily with a red smoky time, and leaves no ashes except those due to its impurities. It is but little if at all heavier is black and dark brown, that is not affected by the alcohol. It yields also a volatile oil. The remainder is a suband does not soil the fingers. It melts at a tem persture of boiling water, and consequently is water for use as fuel, and cannot be economically med for gas. Most of the geological forma-tions contain it, but it is particularly common and the secondary and tertiary calcareous and andy strata. In the primary rocks it is found only in small veins. It is obtained in large quantities on the shores of the Dead sea, in Judgea, and is found floating upon its heavy sa-line waters. In the West India islands it is often met with, but most frequently the bitu-men is in the liquid form called performance. The ancients made much use of this substance as a cement, and many varieties of it are well adapted for this use. The walls of Babylon were built with it. It was also used in embalming, probably dissolved in naphtha and injected into the hollow parts of the body. At present At present it is employed with sand and gravel for making pavements and roofs impervious to water; and pavements and roots impervious also as an ingredient for the varnishes, called for concrete for walks-but its want of uniformity of composition and uncertain supply in this country will probably prevent its taking the place of coal-tar, which though very likely inplace of coni-tar, which though very likely in-ferior to some qualities of asphaltum, is adapt-ed to most of its uses. The subject is further treated under Bitumen. A patent for making a lubricating oil from asphaltum, like that ob-tained from the pitch lake of Trinidad, has re-cently been obtained in England by Dr. Simpson (who first applied chloroform as an engage that (who first applied chloroform as an anæsthetic agent), of Edinburgh and Prof. W. Thompson, of Belfast. The asphaltum according to the inof Belfast. The asphaltum according to the invention is first distilled at a temperature a little below that of a red heat. This produces a thick below that of a red heat. This produces a thick liquid, which is again distilled at the same tem-The second distillation brings over a perature. more limpid liquid—a fine residuum of charcoal being left in the retort. This oily liquid is subjected to stirring or agitation in a wooden vessel with about one-tenth of its bulk of sulphuric acid. A large proportion of the impurities unites with the acid, and when allowed to settle, falls to the bottom of the vessel. The clear liquid is then bottom of the vessel. The clear liquid is then drawn off, and agitated with a caustic alkali or mixture of quicklime and chalk, allowed to settle and the clear drawn off. The resultant oil is then agitated with sulphuric acid as before, and again with the alkali or chalk, allowing time after each operation for the impurities to settle. When the oil has become a pale yellow color, it is put into an iron retort and distilled at a moderate heat, and about onethird of the quantity comes over as naphtha. The heat is then elevated, when the remainder comes over (leaving but a small residuum of charcoal), and is an oil nearly limpid. It is not equal to many other oils for lubrication, but one part of sperm oil mixed with nine parts of it makes a cheap and good oil for machinery. As vast quantities of oil are now employed for lubrication, and as the demand for it must increase with the progress of machinery of all kinds, a knowledge of every new source from which a supply as the obtained is of presently which a supply can be obtained is of no small importance

ASPHALTUM, ARTIFICIAL, a preparation of coal tar boiled to expel the volatile oils, which hold it in solution, and the water it contains. This is then mixed, in its condition of boiling pitch, with broken stones (limestone is the best), and finally it is run into moulds

upon a large table, which is divided into compartments to give it the form of blocks; or it is applied at once to its use as a covering for roofs, bridges, &c. The volatile oils may be collected and saved, but they are commonly allowed to escape. Two barrels hold about collected and saven, allowed to escape. Two barrels hold about 1,000 pounds of tar; and in boiling this quantity one-fourth, or 250 pounds, is lost, of which about 210 pounds is essential oil, and 50 pounds is water. The remainder is fatty pitch. varnishes and lamp-black, and lubricating machinery, and may be used for adding to the illuminating power of gas by passing it over their surface, it seems that more attention might well be given to its preservation. asphaltum for cement will be found more fully

treated of under the head of BITUMEN. ASPHODEL (aspholelus), a genus of perennial plants embracing several ornamental species, belonging to the natural order liliaces, and to the sub-order aspholeles. The name is and to the sub-order asphodeles. The name is of Greek derivation, implying the peerless or kingly flower, and the asphodels have long been kingly flower, and the asphodels have long been among the favorite ornaments of the garden. They are all natives of the old world, and are found abundantly in the sunny districts of Greece, Sicily, Asia, and Barbary. The genus comprises 12 species, all of which have a bulbous root, erect undivided stem, long leaves, and showy flowers arranged in clusters, which in most of the species are spikes. The luteus, or common yellow species, is an old inhabitant of European gardens, into which it was introduced from the shores of the Mediterranean. It is branchless, about 21 feet in height, has scattered, and almost piliform leaves sheathing the stock, and flowers of a beautiful golden yellow. ed, and atmost pilliorin leaves sheathing the stock, and flowers of a beautiful golden yellow. It blossoms during 6 weeks in mid-summer. The rumosus, or white and branched asphodel, has a naked stem with ramifications near the summit, each of which is terminated by a spike of white star-shaped flowers having their realof white star-shaped flowers having their petals which Homer describes as growing in the meads of Elysium. The ancients had a superstition that the manes of the dead were nourstition that the manes of the dead were nourished upon its roots, and they therefore planted it in the neighborhood of sepulchrea, and made it sacred to Proserpine. It still covers the hills and valleys of old Apulia, where it furnishes nourishment to the sheep. The albus, or upright asphodel, differs from the preceding by having a branchless stem, and also by having its flowers a little smaller and nearer together. The other species of asphodel are much less frequently cultivated in gardens than the 8 preceding.

frequently cultivated in galaxies coding.

ASPHYXIA (Gr. ασφυξια, formed of the privative a, and σφυξια, pulse), a temporary or a final suspension of the motion of the heart, and the pulsation of the arteries. The word is commonly applied to sufficiation, or the cessation of breathing, irrespective of the motion of the heart, which may continue some time after respiration ceases.—Resolvation

and pulsation are, however, so nected with each other in the life, and in the most approved storing animation after tempor by hanging, drowning, freezing ious vapors, and by other accid asphyxia, that no real inconv from the apparent misapplication cessation of the pulse, to the r correlative, suspended respiratio and most appropriate means of: cases of temporary asphyxia, h some most excellent remarks fro of late, and caused the modes of of late, and caused the modes of merly adopted to be modified vantage. Not to dwell on by we may give at once an outline views of Dr. Marshall Hall, we on the customary modes of tre reasons for supplanting them, proposes is termed the "Ready phyxia," because no apparatus required. "The main indicatio inspiration, and improve the comeans are physiological and the means are physiological, and ph structions of the glottis being re ing the patient in the prone po the face to the ground, in whis fluids and the tongue itself fa first offert is to excite respiral cally; should this fail, our secv the acts of respiration, mechanic object is to endeavor to impretion, which is done by promot the venous blood, and to restore limbs. Here, again, as we pre revert to the physiological prime respiration from time to time. cations are effected by the

- rules;

 1. Treat the patient instantly, on the air, freely exposing the face, neck, and except in very severe weather.

 2. Nend with all speed for medical aid clothing, blanketa &c.

 I. To clear the threat & Place the patient cently on the flunder the forebead. (All fluids, and the fall forward, and leave the entrance lasts II. To accide respirately.

 4. Turn the patient slightly on his a other irritant to the nostrile; and deah face, previously rubbed brishly until fit if there be no smoores, less no time, but III. To deather respirate & Turn the body gently, but complete a little beyond, and then on the face, all those measures deliberately, efficiently, fifteen times in the minute, only. (The movements per minute agrees with the instances there is deliberation, and cased.) present times in the min movements per minute piratory thorsele dilat-ng with a slow moved hing ies than sixty p-morfit due attention.) his: When the paties to the well moved, and insufration moved, and insufration
- oted; when he is vvod, and inspirate. When the pro-t efficient pressu-stely before rotate into expiration.

The courte description

7. To excite inspiration.

i water be dashed briskly on the surface, preskly and warm.

rofession, and now rejected by those with Dr. Marshall Hall, are, removal stient, as involving dangerous loss of a bellows, or any forcing instrument; bellows, or any forcing instrument; warm bath, as positively injurious; a and the inhaling of oxygen, as uselle inhalation of dilute pure ammonia children, excitement of the skin, use cool and hot bath (the cool tembers 60°, and the hot 100° of Fahrstural respiration, as explained inhibing with pressure upwards, are approved by practical success. Iteratizioners still think well of the a means of resuscitation, we as a means of resuscitation, we ter than give the rationale of the by of the warm bath in asphyxia.

Ayriological relation between the said the respiration, any deviation in either direction, is of a fatal In the course of the systemic (not se) circulation, carbonic acid is respiration, the oxygen necessary ation of this carbonic acid is supthe carbonic acid, so formed, is the system.—The immediate bane-If the suspension of respiration arise rivation of oxygen, and from the re-the carbonic acid previously formed, es a blood-poison. refectly pure nitrogen or hydrogen gas ly in violent convulsions. And this is wing to the privation of oxygen, for id gas might be exhaled into nitrorogen gas. But an animal dies also misting of such a proportion of mid with oxygen, as to prevent the gentleman and the subsection of the matity of oxygen might be so per blown out, and burning only without producing effects so sudden to described, we change the relative of the respiration and the circulad phenomena are produced special to
If the circulation be disproportionmated, carbonic acid is formed, and bidly retained, slighter convulsion death ensue. If the respiration is a dispropriionately augmented, the scoled, for mere pulmonary respirascoling process, by the difference of this inspired and expired air; case, also, the animal dies, but now of temperature. This latter is the asphyriated patier if the respira-ments be unduly u , that is **VOL.** IL---15

disproportionately to the rapidity of the remaining circulation. On the other hand, if in the asphyxiated we excite the circulation, without simultaneously and proportionately inducing the respiratory movements, we destroy the patient by carbonic acid, formed in the course of that circulation, and uncliminated by respiration. This statement leads to the prop subject of these observations, i. c. the rationale of the injurious and fatal tendency of the warm bath, in asphyxia, for it is injurious, and has, doubtless, of itself, proved fatal in cases in which the patient, without it, would have spontaneously recovered. In such a case, it is surely not less essential to the progress of science, and the medical art, to remove error than to establish truth. Warmth is so obviously a stimulus, and a stimulus is so apparently required for a patient taken out of the cold water, in a state of asphyxia, that in recommending the warm bath, we seem to be addressing ourselves to the common sense of mankind, and it was a step in advance to entertain a doubt on the subject. But when we begin to experiment, we learn that an animal deprived of respiration by being submerged under water, lives longer in cool water than in warm water, and learn to consider whether, in fact, coolness is not more favorable to life in the asphyxiated from submersion, than warmth. We recall to and learn to consider to life in the asphymateu from submersion, than warmth. We recall to mind, too, that animals bear abstraction of respiration in proportion to their coolness. The hibernant animals, and the batrachian tribes, will scarcely drown at all. If a kitten be first cooled, or if it be immersed in cool water, it will not drown so soon as it would do if submerged at its ordinary temperature, in water of the same temperature. These facts have been established by Edwards, Brown-Sequard, and Dr. Marshall Hall. Again, all Séquard, and Dr. Marshall Hall. Aghave heard of the Grotta del Cane, at Naples. The poor dog is put into the carbonic acid, and taken out asphyxiated. It is plunged, not into a warm bath, but into the water of the adjoin-

a warm bath, but into the water of the adjoining Lago Agnano, and taken out, restored.

ASPINWALL, a town upon the island of Manzanilla, in Navy or Limon bay. On the N. E. point of the island there is a lighthouse in lat. 9° 23′ 80″ N. long. 79° 53′ W. This place was originally founded by the Panama railroad company as their Atlantic depot, and received its name from Mr. Wm. H. Aspinwall, a New York merchant, who was one of the first projectors of the railroad. The people of New Grenada, to which state it belongs, have never recognized the name, by which it is exclusively known in the United States, but still persist in calling it Colon. The settlement of the town was first commenced in 1850, when the engineers and laborers arrived upon the island of Manzanilla for the purpose of making the preliminary survey for the railroad across the isthmus of Panama. It has gradually grown up into a town of considerable importance, with the progress of the great enterprise to which it is indebted for its origin, and now contains some 200 houses and

Its trade

about 1,500 permanent inhabitants. Its trade is exclusively dependent upon the railroad, and most of its people are employed either as laborers or officials in connection with that enterprise. The buildings are chiefly hotels, for the accommodation of travellers across the isthmus, warehouses for the temporary deposit of goods in transitu, and depots and offices belonging to the railroad company. The shipping is composed of steamers plying between Aspinwall and New York, Aspinwall and Havana, Aspinwall and New Orleans, engaged in the California trade, and the English West India mail steamers, which stop at Aspinwall in about 1,500 permanent inhabitants. dia mail steamers, which stop at Aspinwall in the course of their route to and from the gulf of Mexico, the West Indies and England. In addition to these steamers there are occasional small rigged vessels used for the trifling local trade of the place. The island of Manzanilla, upon which Aspinwall is built, lies on the east of Navy or Limon bay, near its opening from of Navy or Limon bay, near its opening from the sea. It is this bay which forms the harbors of the town, the chief one of which is on the west, where the largest ships can anchor within a short distance of the shore; but such is the exposure to the fierce northers which occasionally blow, that no vessel is perfectly secure. It is intended, however, in the course of time, to remedy this natural disadvantage by the construction of a breakwater from the N. W. point of the island. There is also a roadstead on the east of the island, where there is a considerable depth of water, but it is seldom entered by large vessels. The island of Manzanilla is about a mile in length and a half mile sherable depth of water, but it is seldom en-tered by large vessels. The island of Manzan-illa is about a mile in length and a half mile in width, extending north and south. It is of coral formation, rising but a few inches above the level of the Atlantic at high tide. Until those connected with the railroad commenced clearing it, the island was covered with a forest of mangrove, mahogany, and manzanilla, from which the island derives its name. From the low level of the place, the marshy nature of the soil, the great accumulation of decomposing vegetable matter, the heat of the climate, and the abundant rains, the island is exceedingly unhealthy, and local miasmatic fevers are greatly prevalent.—Aspinwall being the Atlantic depot of the Panama railroad is subject to a periodical excitement each fort-night on the arrival of travellers to and from California. Those arriving from the East begin California. Those arriving from the East begin their transit across the isthmus, and those from the West end theirs here. When these transitory visitors reach Aspinwall, there is ordinarily a great enlivenment of the usually dull time, ly a great enlivenment of the usually dull time, and much of the pro-perity of the small traders, innkeepers, and barkeepers, depends upon these hurried visitors. Aspinwall and its neighborhood are very deficient in supplies for the wants of the inhabitants. Fresh water is only obtained by collecting in large iron tanks the rain which falls during the wet season, and the rain which falls during the wet season, and the chief articles of food come from the New York markets. The neighboring coasts and interior markets. The neighboring coasts and interior country supply, however, a few fowls, melons,

coccanuts, pineapples, yams, and orang harbor also abounds in fish, although a resource which has not been much at The milk used by the inhabitants, is quence of the want of pasture and a scarcity of milch cows, is obtained from which generally feed upon the refus garbage in the town. Aspinwall, the longing to New Grenada, has a separa government, of which the control is a chiefly by residents from the United S the employ of the Panama railroad a hospital in the town, a small church, a chaplain paid by the railroad comp forms the clerical duty, and a newspap ASPINWALL, WILLIAM, M. I., an

physician, particularly famous for his treating smallpox by inoculation, was Brookline, Mass., May 28, 1743, and di 16, 1823. He graduated at Harvard c 1764, and studied his profession with jamin Gale of Connecticut, and at the phia hospital. He commenced practice Brookline, but when the revolution broke out he endeavored to obtain a co Warren to accept the position of su Gen. Heath's brigade, and through his was soon after made deputy director of pital on Jamaica plain, near Boston.
part, as a volunteer, in the battle of L.
After the death of Dr. Boylston, the pi inoculation in America, he engaged line that branch of practice, opened for the purpose in Brookline, and preoculated a greater number of persons
other physician in the country. Whe
nation was first introduced, although we
that if successful it would injure him a ly, he tested it impartially, and knowledged its superior efficacy. practice was very large, and engros and attention for 45 years. During part of this period no miles a day. Its back, often riding 40 miles a day. Its years before his death he was deprive art of this period he made his rou nocturnal studies. He bore this private exemplary patience.

ASPIRATE, in grammar, the second thus (') in th

tion to the sign presided to unappresent to the sign presided to unappresent that the later over which the ought to be strongly assistated, as of EAAs and the Greeks to he Hellene.

ASPLAND, Ross of Michael Aspland, was born of Wicken, in the Dec. 80, 1845. His man of the asme name of the asme churchman, but for an asymast Massack, at the other controls of the same r, at first of the m, and finally a good English an

resigned his schola p on account thereigned his schola p on account there is his theologic upinions, which ad him from remaining longer a benefica a Calvinistic endowment. For a two he tried to occupy himself with the tried to occupy himself with two he tried to occupy nimes with the took no interest in it, and retis theological pursuits. On July 21,
was ordained pastor of the General sengregation at Newport, Isle of Wight,
I Besty to preach Unitarian doctrines. come Aspland entered the ministry he so years old, yet he had a very various rised experience of men and opinions. rious development he showed less his feelings than his opinions, and at age of 16 he was so confirmed in reliage of 10 ne was so commend in ren-avictions as to preach publicly in his Rage at the little Baptist meeting house his father. The fervor that made him as the boy preacher did not leave him boyhood, and the change that gradual-over his mind, partly from his mental ion and partly from association with lends of antitrinitarian views, did not early attachment to the Christian He enjoyed several years of labori-sessful pastoral life at Newport, and of the Gravel Pit chapel, Hackney, 805, where he continued until his 1806, where he continued until his Mr. Aspland stood for years at the the more active and pastoral portise Unitarian clergy of England. In established a religious magazine, the ly Repository," and took the lead in the Unitarian fund society for the suppellar preaching and the relief of indicators. In 1815 he established the im Reference, which, since his death, conducted by his son, the Rev. R. Brook of Dukinfield. The Nem. Con. club, abraced leaders of civil and religious mbraced leaders of civil and religious of various opinions, was formed at his 1817, and in this and other ways he br the repeal of intolerant laws and the of free principles. He was appointed ethren of the Presbyterian liberal clerd an address on their part at court on and on public occasions; accession. eleader of his denomination. The list of sections numbers 50, and since his death of sermons and several pamphlets from neve been edited by his son. His style nd forcible, his spirit is kindly and fer-

learning ample without being rare, whole impression given by his works is

ure me meological ones, works, and correlly by his son, a or vo in London, by many v md-The of 1 ence v lished field ASPRe, or ASPRE, CONSTANTINE D', baron, Austrian field-marshal of Belgian origin, born at Brussels in 1789, died May 24, 1850. He was the son of the brave field-marshal Van Hoo-ASPR brouck, who lost his life at Wagram. He entered into the Austrian army as ensign in 1806, and took part in the campaigns against Franc In 1815, he served in the army-corps which held Murat at bay in southern Italy. In 1825, as colonel, he served against the Neapolitan insurgents. In 1848 he was in garrison in Italy when gents. In 1848 he was in garrison in Italy when the insurrection broke out. In putting down the revolted Italians and defeating the Sardinian the revolted Italians and deresting the cartinian army in 1849, he acted a part only second to that of Radetzky. After being created field-marshal for his services in these campaigns he died at Padua. ASPREMONT-LINDEN, a noble family in Belgium, descended from Siegfried von Este, who came to France under Charles Martel (680), who came to France under Charles Market (1905) and was endowed with the county of Aspremont, near Metz. The family divided into 2 branches, Aspremont and Linden. Gobert III. founded the first; his grandson was made duke by St. Louis, 1295; his descendants obtained the privilege from the emperor Charles IV. (1384) of privilege from the emperor Charles IV. (1884) of conferring patents of nobility and coining mon The Linden branch became extinct on the death of Count Charles Robert, 1819. The elder branch, which was raised to the rank of baron of the which was raised to the rank of baron of the empire, 1610, and to that of count of the empire, 1676, is still in existence. I. VICOMTE D'OETHE ASPERMONT, governor of Bayonne at the time of the bloody feast of St. Bartholomew. On being ordered by Charles IX. to put the Huguenots to death, he made answer that in Bayonne he could find many loyal subjects, but not one assassin—"My soldiers and I beg you to employ our arms and lives only for things that are possible, no matter how hazardous they may be." II. François de LA Mothe-Villebert, vicomte d', took service in the French army vicomte d', took service in the French army about the middle of the 17th century, was second only to Vauban as a military engineer. As commander of the left wing he gained the victory over the Spaniards at Espouilles, in Catalonia. He fortified Toulon and died there June 1678. III. FERDINAND GOBERT, as imperial ifeld-marshal, stormed Buda, 1686, and served against the Turks in the 4 following campaigns.

IV. FERDINAND KARL, born 1689, also passed his life in the Austrian service. He became master of the ordnance, and did good service in the 7 years' war. He died at Vienna, 1772, as imperial field-marshal.

ASPROPOTAMO, the largest river of Greece, rises in Albania, and after a S. S. W. course of 100 miles falls into the Mediterranean sea, near Missolonghi. At Korakos there is a bridge over it 180 feet in length. Aspropotamo signifies the "White river." It was anciently called the Achelous.

ASPULL, GEORGE, remarkable for the early development of his musical talents, was born in England about the year 1818, and died Aug. 20, 1832. At the age of 5 he began to give proofs of an extraordinary taste for music, which his father, himself a musician, lost no time in gratifying. In 2 years the child had learned to master the most difficult piano-forte compositions, which he read with great rapidity, and had cultivated with success every style of music, including the concertos of Handel and the fugues of Bach and Scarlatti. He was listened to with astonishment by musicians and amateurs, who could only compare him with Mozart at the same age, and on several occasions played before the royal family at Windsor. As is too frequently the case where the intellect is prematurely developed and the brain overtaxed, his physical powers soon gave out, and he died at the early age of 14.

ASS (equus asinus), the humblest member of the horse family, probably that first brought into subjection to man, the most patient, sure-footed, and enduring, and, it must be added, the worst cared for and most cruelly treated of its race.—The horse family, of which the ass ranks as the lowest member, after much discussion and dispute among authorities, has been thus classified. It is of the division sertebrata, having a back-bone; the class mammalia, giving suck; the tribe ungulata, having hoofs; the order pachydermata, thick-skinned; the family solipeda, uncleft-hoofed; the genus equus, the horse.—The principal distinction of the family is the uncleft-hoofed, and this distinction, it may be remarked, has been observed, and has prevailed, not only among naturalists, but generally wherever the animal has been introduced among men not previously acquainted with him, from the earliest periods of recorded history to the present times, as is rendered evident by the names given to him, in countries the most remote and times the furthest removed, by those who have had him introduced as a novelty to their acquaintance. Thus solid-hoofed, or, more correctly, single-hoofed, paringle, hoofed, paringle, hoofed, paringle, is the constant Homeric epithet for horses, at a time when the fable of the centanns, who are described as scarcely extinct at the date of the events which the pixet describes, proves the recent use and knowledge of the animals; and again, solid-hoofed, paringle, paringle, paringle, paringle, paringle, paringle, paringle, without any continent to the horse, when he was find the Canadas—certainly without any continent to the horse, when he was find the Canadas—certainly without any continent to knowledge that the sum of the contants of the contants, or knowledge that the sum of the contants of the contants of the contants.

liarity had gained this name for t

mal, among the most p hed people of and quity, to whom he was p brought from he youd the sea; as is shown by the fable of his production in the acropolis of Athens, starting from the earth at the touch of Neptune's todent.—The various members of the equits group, whose generic distinction is the undivised hoof, are as follows:

Equus caballus, the horse.

Equus caballus, the horse.

Equus sebra, the zebra.

Equus sebra, the zebra.

Equus burchelli, unnamed in English.

Equus cappa, the quagra.

Equus cainus, the ses.

Of these 6 varieties, 2 only, the first and to last, are domesticated; and of neither of them, so far as it is known, are any to be found has state of nature, except such as have, themselve, or their progenitors a few generations are subtiplied in particular places. Even this, has ever, has occurred with the true horse, the mean frequently than it has with the ass; of which in fact, it is doubtful whether the pursual wild ass is or is not the progenitor.—If the horse, the native land is not distinstly known, although it is known set to have been Arabia, nor even, as some have surmind, Egypt, in which country it is first historically are, on the whole, in favor of an inhead Affican, Abyssinian, or Nubian origin of this selle animal; from one of which countries he was first introduced into Egypt, and thence intends other lands; Arabia, in which he has satisfied other lands; Arabia, in which he has satisfied

maid-servants, and she-asses, and cassels." All from that time forward the mention of beasts of burden, applying the hunder the and it to the end of a cross is never account if generations at som of Abraha, in the years of a cross, and for the books and for the beast known in Egyptime to the herds, and for the contraction of beatre this account of beatre this account is not known estimated to the contraction of the contraction

tes on its right hand, while marching Thapsacus in Syria toward Babylon.

plains he calls Arabia, although they lie it is generally known as Mesopotamia.

animals, which he simply terms wild

see eypee, of which words the specific same onager is merely a corruption, were pany with ostriches, antelopes, and bus-they were eagerly pursued by the horsethe army, and are described as being sed of extraordinary speed and endurance. lid asses of the same country, to the latest are possessed of the same characteristics. ave always been the especial quarry of rsian monarchs, and the famous tyrant and considered the running down of one greyhound a feat equal to the winning Shah was indefatigable in his pursuit of ttle or conquering a province. So great ir fleetness, their wind, and the power So great staining their speed over immens that, unless three relays of fresh dogs elet slip on them, without a respite, and the hunters could get 2 or 3 remounts, as no chance of their being run to bay, he pursuer, mounted on his best Turk courser, seeing the bay, if they were. esh was considered the most exquisite of Whether this wild ass is or is not the tor of our poor, patient drudge, is un; but the probabilities lie against the , although the Parisian savants and r, although the Parisian savants and mads of the day are busily crying up the acc of ass-meat. Speed, however, is a which does not degenerate, but, on the ry, increases, by domestication; as is by the fact, that the tamed horse invaruus down and overtakes his wild con-

wen with the disadvantage of carrying with of a man on his back. The wild sight of a man on his back. The wild Aenophon, and that, probably identical, hunted by the shahs of Persia, is—it presumed—the dziggtai, or equus hemi-

neuce or ura norse to the em unsuitability to me country; and it is certain, that while the Jews were pre-eminently a marthat while the Jews were pre-eminently a mar-tial people, their hosts, unlike those of the other oriental nations, which were decidedly equestrian, had their force and dependence in their infantry. Their princes and rulers, especially, rode on asses, as is proved by many passages of Scripture. Jair of Gilead had 30 sons sages of Scripture. Jair of Glead had 30 sons who rode upon as many asses, and commanded in 30 cities; Abdon, one of the judges of Israel, had 40 sons and 30 grandsons, who rode on 70 asses; and lastly Deborah, in her song, apostrophizes the great and powerful of the land by the significant phrase, "Ye that ride on white the significant phrase, -In connection with this fact, it is worthy of remark, that Lieut. Col. Smith, who has devoted much attention to the equine families of the East, found near Bassorah, very recently, a breed of white asses, remarkable for their ex-cellence, which, he had reason to believe, are of Judah.—The characteristics of the sas, as distinguishing him from the horse, are: 1, inferiority in size; although doubtless this, in European countries, is in great part the consequence of centuries of cruel treatment, scanty fare, and want of attention in breeding; the animal hav-ing been for ages regarded only as the de-graded drudge of the poorest of the poor; 2, a rougher and more shaggy coat, capable, however, of much improvement by warm keeping and a little grooming; 3, the shortness and stiffness of his postern joints, and the hard so-lidity of his sound upright hoofs, which seem almost incapable of lameness, and render him the safest and most sure-footed of animals in the safest and most sure-rooted or animals in difficult mountain passes; a lame or a stum-bling ass is a thing so rare as to be almost unknown; 4, the extraordinary length of his ears, resembling those of the hare, in a greater degree, than those of his own race, and the pe-culiar cross which he bears on his back, formed

by a longitudinal dark stripe along the course

whose character and disposition the ass pos sees many points. The usual color of the sesses many points. The usual color of the ass is gray, mouse-colored, or black, and as they tend to bay, dun, or chestnut, the horse colors, their quality deteriorates. The dental system of the ass assimilates to that of the horse, and in like manner indicates the age of the animal, by the changes and marks of the teeth. The male ass is a perfect adult, capable of propagation, at 2 years; the female somewhat earlier; the latter carries her foal 11 months, producing it in the hearinning of the 12th. The sexual potency in the beginning of the 12th. The sexual potency and vigor, in both sexes, are excessive; which may explain the fact that in the hybrids of the ass and horse, the offspring are much nearer as well in organization as in temper and appearance, to the former than to the latter progenitor. In all cases, the mule is an ass, modified by a strain of the horse, not a horse modified by a cross with the horse; not a horse, modified by a cross with the ass. The hybrid foal of the male ass and the mare is the true mule; that of the stallion and the she-ass, the hinny—the latter being less strongly tinctured with the blood, and having less of the form of the ass, owing to the superior influence of the male in the physical form. rior influence of the male in the physical form and external organization of the progeny.—The mule, like the ass, brays, owing to a peculiar construction of the larynx; while the hinny neighs, like its sire. There is no doubt but that with careful breeding, grooming, stabling, and nutritious feeding, the ass might be improved, at least as much as any other domestic animal and probably in a greater degree. As animal, and probably in a greater degree. As it is, he is admirably adapted for a beast of burden, in cold, mountainous countries, in which, on a quarter of the food on which a horse would starve, he will safely carry burdens under which the more generous animal would would starve, he will safely carry burdens un-der which the more generous animal would break down, over places in which the other could not keep its footing. The character of the ass has been grossly belied, as obdurate, stubborn, and indocile; whereas, under kind treatment, he is hardly inferior in those respects to the horse or the dog. The female is exces-sively fond of her young: and both sexes are sively fond of her young; and both sexes are susceptible of strong attachment to their owners, unless alienated by cruelty and brutal treatment. In elevated countries, where the soil is light, asses are serviceable in an agricultural point of view; although in the United States, to which they were first introduced by Gen. Washington, they are little used except for the propagation of mules, which are in considerable propagation of mules, which are in considerable and increasing demand, particularly in the southern states—Tennessee and Kentucky being the largest producers of these valuable animal The best as The best asses are obtained either from Smyrna, of the Asiatic breed, or from Spain, where the race has been particularly cultivated, as it has also, in Peru, with a view to the business of mule-raising, which in both these countries is an important branch of agriculture.—It is little probable that the prejudice against the ass will ever so far subside, as to lead to any pains being taken, during successive generations, to elevate him to the rank from which he has dees are obtained either from Smyrns

clined; but if such were the case, it can harily be doubted that, beside solving a curious quation of natural history, the experiment would be crowned with success.

ASSAL, a salt lake of eastern Africa, lying S. W. of Tajoora. It is of an oval form and about 32 miles in circumference. It is said to be over 700 feet below the level of the sea. In shores are coated with a saline increasing which in many places is more than 6 inches in thickness. The traders of Abyssinia reset.

thither in large numbers for the sake of its sak.

ASSALINI, Priving, an Italian physician born at Modena, in 1765, died in 1840, dienguished his self-sacrificing efforts and his polications, in connection with medical and segical science. He joined the French argument Napoleon, in the campaign against Levy, but he went only as far as Jaffa, to analy to the victims of the plague, which deschied that city. On this trying occasion he displayed the greatest courage, and in his Observations at Jaffa, he discards all fear of infection on the part of the physician attending upon cases of the plague, provided he does not stay too long in the sick room, and takes plenty of exercise in the free air after leaving it. At Cadix he had opportunity to study many cases of yellow fever, and he reported with great accuracy his experience in all such cases, and also in many cases of dysentery and other diseases which afflicted the army, and the countries, as Sicily and Calabria, through which he happened to pass. He sho occupied himself with the study of maladies of the eye, and the Cesarean operation, and other operations connected with accouchements. The books which he published on these varies subjects were received with great favor by the academies of medical science and the profession of the court, and surgeon in ordinary of the viceroy. After the Russian carpaign he practised his profession at Miss, where he precided over the Institution for missing he had or the surgeon of the baspital of St. Ambrosia, and filling a chair at the medical soletge of Milan.

lege of Milan.

ASSAM, or Asam, a kingdom in further India, bounded on the N. by Thibet, on the E. by Chica, on the S. by Burmah, and on the W. by Bengal. It was part of the Burman empire, but dreamstances led to the interposition of the Beriah in 1825, who took the kingdom under their protection. The country abounds in all the richest productions of the east, the precise metals, cereals, spices, silk, the costly works, and all the choicest products of both temperate and tropical climates. Recently the toplant has been cultivated with some success, although the preliminary difficulties attendation the introduction of the shrub have kept of an artificial price. The fertility of the sail dependent on the annual inundations of the rivers, of which the Bramapootru is the largest.

seems has been handed down to posterity, on seems of a single act of self-sacrifice, which caused his death. It happened during a fight seem Geldern, Oct. 15, 1760. Assas had the seems of the night watch, and while he west a little in advance of his men to see whether all was right, he found himself of a sadden surrounded by a band of soldiers of the leastle camp, who threatened to shoot him, if the should betray their presence. The safety of the army depended on his conduct. Without heattating he shouted for his soldiers at the highest pitch of his stentor voice. The soldiers came on. The enemy's plan was frustrated, but before even the sound of his voice had fully tempired, Assas had ceased to live. The French approximent conferred an annual pension of a thousand france upon his family.

ASSASSIN, a word introduced by the crumilers into the western European language. It
eriginated from being given to the disciples and
followers of the then celebrated "old man of
the mountain." Bound to him by fearful oaths,
in their terrible and bloody fanaticism they
mardered unhesitatingly—reckless of dangers
and death—whoever was pointed out to them by
their arbitrary chief. He was called Hashishin,
this name being derived from Hashishet, an
epiate now known as hashish, used by the chief
to bring his followers into a state of murderous
frensy. The use of this opiate was introduced
among the Arabs and Mohammedans by a contemporary of Mohammed, a sage named InderBaba-Reten, a great botanist, and, as some Molammedans maintain, a founder of the der-

ASSAULT, in law, is usually but not necessarily accompanied by battery. The assault need not be accompanied by blows. A demonstration of violence, a blow or a stone which prises its aim, is an assault; a battery implies actual contact either with an instrument or missile. Assaults are felonious or common accentes. They may be made either the subject of a prosecution or of a civil action. A filonious assault is an assault with an instrument calculated to produce death, such as knives, swords, guns, and so forth; or it is an assault with intent to commit some worse offence, in itself a felony, such as rape; a common assault is a battery with the fists or sticks and stones. The consequences are widely different. The common assault being esteemed a light offence, a misdemeanor (literally ill-behavior), so that a man who batters his wife within an ace of her life, with a poker, or bites off an opponent's nose or ear, is only deficient in polite and orderly

conduct, and is either fined or sent to prises for a few weeks, while a scratch with a penkinife might subject the offender to years of prison discipline. The police reports of every day in the year display this remarkable inconsistency in the law of assault. The statute law of England establishes some distinction in the quality of the persons assaulted. Magistrates, policemen, and certain other persons, are additionally protected.

ASSAULT, in military affairs. See ATTAGE.
ASSAYING (Fr. essayer, to try). This term, applied always to metallic compounds, is variously used, sometimes in the sense of analysis which means the sense of analysis. which means the separation and estimation of all the ingredients; sometimes to signify the determination of the quantity of gold or silver in any alloy with other metals, and sometimes to signify the separation of the principal metals The first use of the word is incorin any ore. rect; the second is the oldest and commonly received signification, still in use among workers in gold and silver; and the third is the use of the word among metallurgists, and is generally limited by them to separations made in the ally limited by them to separations made in the dry way, that is, by the crucible. By the French chemists it is not limited to this application alone, for the ablest treatises on the subject are the Escais par la vois seche and the Escais par la vois humide, of Berthier. A general view of the subject can be given by treating it as applied to gold and silver alone; and some special methods of assaying a few ores of other metals may be added. The process of separating gold and silver from other metals with which ing gold and silver from other metals with which they are alloyed depends on this principle, that y cannot be converted into oxides bining with the oxygen of the air, while the other metals they are generally alloyed with can be oxidized at a high temperature. The first object, then, is to melt the alloy, and while it is in fusion cause the baser metals to be oxidized. ized. The process by which this is effected is called cupellation. It is applied in economical operations on a large scale, as well as in the laboratory process.—The apparatus consists of a small wind-furnace, a muffle, and little cups, or cupels, made of burnt bones ground to powder and moulded together with water. The muffle is a flat-bottomed earthen vessel, 8 or 10 inches long, 8 or 4 wide, and 21 or 8 inches high, its top arched over, one end open, the other close. In its roof and sides are little apertures through which air drawn in at its open end can pass. It is set in the furnace, in the side of which is an opening corresponding to the open end of the muffle. Coals are heaped around and upon the nume. Coais are neaped around and upon it to expose it to the full heat of the furnace. The cupels should be prepared of bone-ashes, well burnt, ground, and washed, and then shaped into cylindrical forms, an inch or so high and 2 inches in diameter, their tops having a shallow depression to hold the metal. These cupels have the property of absorbing the ox-ides of the metals and holding those that will not oxidize; but as they cannot absorb a great-

weight than their own of the oxide of lead or litharge, not quite so much of this me should be put into any one as its own weight.

A piece of silver to be assayed for determining A piece of silver to be assayed for determining its purity is carefully weighed in a delicate balance. It may be from 80 to 40 grains, or even less, if already considerably alloyed. A proper quantity of lead, known to contain no silver, is put with it, and the two are placed, by means of small tongs, in the cupel, which, with the muffle, has been brought to a full red heat in the furnace. It is convenient to carry on several of se operations at once, and therefore a number of the cupels are usually introduced together on the floor of the muffle. The metals immediately melt and form a bright globule, which boils and spins around, and keeps in continual motion. The air drawing in through the muffle oxidizes its surface, and fumes of the oxide of lead are carried off by the draft. At the same time a floating scum of the oxide is constantly flowing a noting scum of the oxide is constantly flowing down the sides of the globule and sinking into the cupel, while freshly formed oxide replaces it. Any copper that is present is oxidized with the lead and absorbed into the cupel. Thus the operation goes on till it terminates by all the lead being oxidized, which is indicated by a sudden brightening up of the little globule, and the committee of the appearance of the fumes and scum of oxide. This little globule, which is pure silver, shows by its diminished weight the quantity of alloy that was in the sample. Cure should be taken to avoid too intense heat, at this may volcible a postion of the silver was in the sample. atilize a portion of the silver; and the globule should not be cooled suddenly, as the pure metal absorbs oxygen when melted, and gives it out in cooling. If the change is sudden some silver is apt to be ejected with the gas. By a little experience and care this operation is made so perfect that no sensible difference should be detected in the weight of two buttons obtained from two assays of equal weights, when tested by a balance that turns with relation of a grain. The quantity of lead that should be added is a matter that can only be determined by experience. Too little lead for the silver prevents the formation of a clean button, free of oxide, and too much lead is apt to carry down with it into the cupel a small quantity of silver. This operation is often performed with the blowpipe, and small cupels adapted to its uses. The weight of the little button is ascertained by the size of the round hole, of a graduated series of such holes in a brass plate which it fits, the weight of a button of silver or one of gold for each hole having been previously as-certained. In skilful hands this is conducted very expeditiously, and with considerable accuracy. It is especially adapted to the testing of argentiferous lead ores, to determine approximately their percentage in silver. The lead mately their percentage in silver. The lead ducing process with the blowpipe, that must precede the cupelling. M. Gay Lussaches in-troduced into the French mint and other es-tablishments in Paris, a simple method of de-

termining the (ing it from its s e by a solut. do which is dropped from a gradua the silver solution as long as t cipitate of chloride of milver The process is very a determining the strength of a the quantity of alkali employed to a The weight of the material used to n tain effect is employed for calcul ty of the substance operated upon.
ed with copper is to be assayed, so be added to the alloy, for copp gold is not easily separated from it of the three metals may be cupelled on, and the per is oxidized in the proce remain together. metals is separated by the proce ing, or quartation, as it is usually upon an alloy made to contain at of silver to 1 of gold. If the silver no matter, but wh proportion, it is proportion, it is no matter, but was amount compared with the gold, is by the gold from the action of the dacid, which is used to dissolve out. To insure a perfect union of the gold added to it, it is well to melt them. and then separate the lead by capellic heat may be safely applied than whe cupelled without gold, as the allog cannot waste by volatilization. The hammered out, heated red hot, and and then rolled into a thin plate coiled up, of the size of a quill, at cornet. This is put into a parting or 3 times its weight of pure mit poured upon it. Some heat is app red fumes of nitrous acid gas are given in a short time the silver is dissolve gold is left, still retaining the form but a brittle, spongy, brown mass. of silver is poured off, and a stro to the gold, and heated to dissolve or traces of silver. This is poured of gold is washed with hot distilled was carefully taken out, put in a certheated, when it

tallic lustre, and the fine color of goal, wheness and flexibility. Heing now with you, one process is finished by the calculation of antity lost. The silver is recovered by taking it from the solution by the interaction of bright sheets of copper, for what the acid has a greater attent that is recovered by one rer. It is accertained that in this process the ver is never entirely taken up to the acid, and that some gold is discoved by one acid, as is found by preserving the name acid to extract the last traces the name acid to extract the last traces as at last control with fine gold. This has us an noticed in the British mint, and fall of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold lave been collected from latter the last traces of gold la



20 per cent. of fine charcoal, and 11 time

his process.—The assaying of iron ores is all upon the same principles as the reducing in the blast-furnace. The oxygen, with the metal is combined, must be taken up the taken up to it some substance for which it stronger attractions than for iron, and the stronger attractions than for iron, and the stronger attractions than for iron, and the stronger attraction that the product of their union he a glassy fluid, through which the glo-les of metallic iron can easily sink and collect other in a button. Charcoal is the subto the earthy ingredients of the ore. be desired glassy fluid is a silicate of lime and mains, and it may be of magnesia. If the already contain much silica, carbonate of ma, either pure or the magnesian carbonate, with the addition of some alumina, or common the magnesian carbonate, with the addition of some alumina, or common manufactures that the same alumina or common manufactures are significant. ley, constitutes the proper flux. Ores deficient a silica require an addition of it. Some ores materia such a mixture of proper fluxing ingrelement, that they melt easily without any addition of these matters. In the crucible, a little x increases very much the fusibility of the fature. The ore and fluxes should be thora branqued crucible, t. c. one carefully filled drammed with fine charcoal, moistened with ther to a paste, and out of the top of which a mity is excavated for holding the assay sam-a. The crucible is to be placed in a wind-race, gradually heated for half an hour, has the whole force of the blast is to be ap-As the whole force of the blast is to be aplied for half an hour longer.—The assaying of
spper ores, as conducted by metallurgists, is
hea an empirical process, the fluxes being
lied with very vagne ideas as to their true
lied. The ores are properly classified into
lied which contain no sulphur, arsenic, or
sy foreign metals but iron; those which conlin sulphur, iron, arsenic, antimony, &c.
res of the first class, containing over 3 per
lied of opper, are reduced in a crucible by the
ddition of 3 parts of black flux. Poorer ores
rust be assayed in the wet way. The second
less are sulphates, or sulphurets. The former
re easily decomposed by heat in a platinum e easily decomposed by heat in a platinum excible, when they may be treated as subsuces of the first class. The sulphurets, unwhich general head are included most of
which general head are included most of
workable ores of commerce, are treated in a
rest variety of ways. The first operation, afreducing them to fine powder, is to roast or
sleine them, to expel the sulphur. This prorequires care and experience, and is most
storoughly effected, according to Mitchell, by
flam one-tenth of their weight of carbonate
f smmonia to the roasting mass in the crucila, constantly stirring it in as the calcining goes a, constantly stirring it in as the calcining goes

a. The ammoniacal and sulphurous vapors

aving a strong affinity for each other, the

hole of the sulphur is extracted. The ore is

sen thoroughly mixed in a mortar with 25 per

act. of its original weight of lime, and 10 to

weight of dry carbonate of soda. The whole is to be placed in the same crucible in which the roasting was done, and covered with its weight of glass of borax. It is then subjected to a moderate heat for a quarter of an hour, and to a bright red heat as much longer. On cooling, and breaking the crucible, the button of copper will be found in the bottom. It is well to make two parallel assays of these ores, that one may confirm or disprove the other.—The common varieties of lead ores subjected to assay are the sulphurets (galena) and the carbonates. The former is treated by taking 400 or 500 grains, coarsely powdered, and mixing with it one-fourth its weight of black flux, one-fourth of iron filings, in small pieces, and one-eighth of cream of tartar. The crucible should be large enough to contain double the quantity, and the charge should be covered with common salt half an inch deep. After being exposed to a high heat for 10 minutes, the lead may be poured out, or suffered to cool in the crucible. If the ore contain much earthy or pyritous matter, a less proportion of iron filings should be used, and a little fluor-spar and borax be added. Galena is conveniently assayed in an iron crucible, the crucible itself furnishing the material for desulphurizing the ore. The usual quantity, say 400 or 500 grains, is mixed with 21 times its weight of carb. soda, and put in an times its weight of carb. soda, and put in an iron crucible, which is covered. The galena is decomposed, and sulphuret of iron formed. The lead is poured out into an ingot mould, and the crucible well tapped to obtain all the lead. Another sample is immediately put in while the crucible is hot, and the operation repeated as long as the crucible lasts. It will last longer by being equally heated on all sides. The car-bonates are assayed with half their weight of black flux, and a little cream of tartar, with a

black nux, and a little cream of turtar, with a superficial covering of salt.

ASSELYN, Jan, a distinguished Flemish landscape painter, born at Antwerp in 1610, and died in 1660 at Amsterdam. He studied under Jan Miel and Esaias Vandervelde at Rome. In his landscapes taken from the vicinity of Rome, which are enriched with ruins of edifices, and decorated with figures and cattle in the style of Berghem, he imitates the manner of Claude Lorraine. His touch is bold, his coloring bright, his skies warm, and his figures well drawn and skilfully disposed. He also painted battle pieces of considerable merit. He was surnamed Crabbetjie (little crab, crab-like) by the Flemish artists at Rome, neceput of a contraction in his fingers.

on account of a contraction in his fingers.

ASSEMANNI, the name of a Christian Syrian family, several members of which distinguished themselves by their knowledge of the oriental literature. The first and most learned among them was Joseph Smon, born at Tripoli in 1687, died at Rome in 1768. He was educated at Rome, took orders, was sent by the pope to visit the libraries of the monasteries in Syria

and Egypt, whence he brought back to the Vatican many valuable works. He was created bishop and regent of the library of the Vatican, and began a publication of the oriental manuscripts found there. He thus contributed more than any one else to make the Syrian literature known to Europe. His nephewa, STEPHEN EVODITS and ALOYSIUS, or JOSEPH LOUIS, both came young from Syria to Rome, received there a clerical education, and in the course of the 18th century distinguished themselves as orientalists, bibliophilists, and authors of various works, including catalogues of celebrated Roman and Florentine public and private libraries. Finally, one of the name known as the Abbot Simon, a learned Maronite, was professor of Oriental languages at the university of Padua, where he died in 1821.

versity of Padua, where he died in 1821.

ASSEMBLY. This is a term introduced from the French (assemblée), and is employed to designate meetings or gatherings of persons for a variety of purposes. I. Socially. We apply the term assembly to gatherings for convivial-ity or amusement, and also to informal meetings of the community, or any particular class of it, for literary or religious conversation or discussion. Such assemblies have no powers discussion. Such assemblies have no powers not enjoyed by private citizens; they are only aggregations of individuals for concert of thought or action. Every such assembly has its rules, either expressed or understood, for self-regulation, but they have no action or existence beyond the assembly itself. II. Politically. The word assembly designates certain bodies of men associated for civil purposes, and possessed of more or less political power, such as the Roman assembly, the assemblie du champs de Mars. These associations may be from the people, and so be democratic to a from the people, and so be democratic to a greater or less degree, or they may be congreater or less degree, or they may be convoked by the mandate of a king, and so be aristocratic or monarchical. Such an assembly is always possessed of more or less power to make its deliberations or enactments rules of conduct for itself, or those whom it represents, be-youd the pale and time of the assembly itself. It is also either within the scope of the po-litical constitution or charter under which litical constitution or charter under which its members reside, and is therefore constitutional; or, it arrogates to itself powers not recognized by those documents, and is re-tionary. In the latter class may be the French national assembly of 14 by a stroke of revolutionary policy, a into itself the powers exercised by the i under the then existing government of k. The term assembly, in some states of the land designates both branches of the legislature jointly. In others it designates the lower branch only, while in others still it is used with the prefix "general," with the same application, III. Ecclesiastically. The term assembly has been applied since about the time of Calvin to bodies of the clergy or laity, represent otherwise, met to deliberate or act ou pertaining to the doctrine or discipline on

Such an assembly, und church. ment where the church and st certain political or at least civil pow associate the arm of the law enactments; while in countries and state are not united, the as enforce its decisions in that provis custom of the country has assigned diction of the church, and even the detriment of any civil right of the In Scotland and in this country, th sembly has an ecclesiastical imp mention. Under th deserves Knox, the great religious reforme there grew up a very strong party the independence of the church; separation from all civil interferen complish this, a representative conve clergy and laity was held first in 1561, the plans of emancipation were imperfectly matured. Through lo ful contests, sometimes disgraceful to be ties, the Presbyterian element at le in the memorable assembly of Gl the ascendency it desired, abolished t pal hierarchy, and continued its sitting face of the royal mandate of adjusting This may be regarded as the comment the general assembly of Scotland, cas a deliberative and judicial body in the size of determinant and salvantage. cise of determinate and acknown tions. The triumph of the asset temporary. In the protectorate, of Cromwell, the sittings of the forbidden, and the same prohibition on different grounds, was continued restoration, until William III., who re assembly and the 8 inferior judicator Scottish church to the exercise of the tions, though without admitting th an entire independence of the state Ever since the revolution, the gen has nominally been adjourned from by the royal commissioner, who si sembly, but without any power its deliberations. The commi The commission in the name of the English crown sembly will be reconvoked on a while the ecclesiastical m nounces the adjourn name of the Lord of the Church."

of the Church."

or courtland is the highest of church. The other of church. It is pre-teries send 218 mills and the church of Boot.

Tu: burghs send one clder of work, and the church is the church is the church of Boot.

sonvocation of the church of England.

seembly holds its sessions at Edinburgh in
during 10 days, and all business not comd within that time is assigned to commiswhich are empowered to hold meetings precipy. The moderator of the assembly is risodern custom a clergyman, and preaches a men at the opening of the session. Final appeal all parochial matters is had to the assembly the inferior judicatories. On account of coned encroachments on the independence of the reh of Scotland by the crown, in 1843, at annual meeting of the assembly a secession the Non-Intrusionista, with Dr. Chalmers at head, took place, and the Free Church of the day organized, and constituted a general second sembly on the same principles as the forrestablishment, though it is more generally ignated as a synod. These must be distininternated as a synod. ed from each other. Only one other rerk deserves to be made here, to guard against intake in reading various works on the eccle-matical history of Scotland. The branch of the church of England, which, despite of the wild disadvantages to which it has been sub-ted in Scotland, has perpetuated itself in the country, and which to-day consists of a dinate (archbishop) and 6 bishops, is denomi-ted in all works written by church of Eng-mathors, "the Church of Scotland," and authors, in this article has been designated ind authors, "the Church of Scotland," and ist which in this article has been designated in the church of Scotland, is called "the Scotland, is called "the Scotland, to designate he church of Scotland, assembly is used in its United States, as in Scotland, to designate he highest ecclesiastical court and legislature the Presbyterian denomination of Christians. the while Presbyterianism as a religious doc-ine, and in the leading principle of church wernment characterized by its name (Presby-riem), has the same symbol as Scotch Presby-riemism, the general assembly of American rienism, the general assembly of American resbyterianism essentially differs from that of he Scotch, from the consideration that the Inited States civil government recognizes no stablished religion, and puts no religious demandation in any connection with the State. The first general assembly of the American resbyterian church was held in 1789, though he denomination had existed in this country lace 1704, the first presbytery having been ormined in that year. Previous to the holding mised in that year. Previous to the holding of the general assembly, and about the middle of the last century (1741), the Presbyterian hurch was divided by a schism into 2 parties, no organizing (1745) under the name of the few York synod, while the other retained the synod, while the other retained the control of the Philadelphia synod. The division name of the Philadelphia synod. The division he action of the synod concerning itinerant rangelists, and the necessity of a liberal edusation as the condition of a license to preach.

The Tennent family, within the limits of the

New Brunswick presbytery, were prominent in

the schism of 1741. But the breach was at

length healed, and in 1758 a proposition was

made for a reconsolidation, which was finally effected. In 1786, it was proposed to divide the synod, which since the reunion had been known as the New York and Philadelphia synod, into 4 synods, and then out of these 4 to form a general assembly, which plan was consummated in 1789; and on the third Thursday of May in that year the first general assembly of the Presbyterian church met in Philadelphia. This continued until the second division, which occurred on doctrinal grounds, into Old School Presbyterianism and New School Presbyterianism, since which time (1838) there have been 2 general assemblies, one for each of these branches of the church. In the last meeting of the New School general assembly, held in Cleveland, Ohio, in May, 1857, that body adopted a paper on the subject of slavery, with which a portion of its members were not pleased. These members therefore united in a protest against the action of the assembly, and issued a call for all who sympathized with them to meet at Washington, D. C., in the month of August following, for the purpose of organizing a third general assembly, in which the subject of slavery should not be introduced. The place of meeting was subsequently changed to Richmond, Va., where the question was discussed, and laid over for further action, at a future meeting to be held in Knoxville. Tennessee.

in Knoxville, Tennessee.

ASSENT, Royal, the form by which the English sovereign signifies approbation of a bill in parliament. The assent is either by the sovereign in person on the throne, or by commissioners appointed for that purpose. Supply bills are assented to in the commons, other bills in the lords. The form used is Norman French, to roi to result to a common bill, soit fait comme it est désiré to a private bill. The assent is pronounced by the clerk of the parliament. The custom of using Norman French was abolished by the thoroughly English-hearted Cromwell, whose form was "the lord protector doth consent." But the restoration restored the French language with French influence; and although in 1731 it was enacted that all judicial proceedings should be in English, this form was left as an exception, possibly by accident. The royal assent is a form; the modern usages of parliament do not bring the question to the issue of an assent. The sovereign is presumed to accept the advice of ministers. Personally, the president of the United States is more powerful in the affairs of government than the sovereign of Great Britain. The last instance of refusal of royal assent was in 1707, by queen Anne, of a Scotch militia bill. An act of parliament takes effect from the date of the royal assent.

ASSER, or Asserius Menevensis, a learned monk of St. David's or Menevia, in Wales, died about 910. Asser was invited to the court of Alfred the Great, of Wessex. Upon the reputation of his learning, King Alfred first wished him to reside all the year round at his court, but Asser would not leave his monastery

altogether, so it was arranged that he should divide his time between his English and his Welsh residence. He read Latin with Alfred out of such few books as the king possessed, and corrected his translations. Alfred bestowed many ecolesiastical preferments upon Asser. Some authorities say he became bishop of Sherburn. Asser's great work is his "Life of Alfred," in Latin. The earliest edition is that of Archbishop Parker, at the end of Walsingham's "History," 1574. The best edition is that of Wise, Oxford, 1723, entitled Annales revum gestarum Alfredi Magni. This is our chief suthority for the events of Alfred's public and private life from his birth to 889, and conveys much incidental intelligence about the laws, manners, and general civilization of Wessex at that time. It should be said, however, that Thomas Wright, in the Biographia Britansica Litteraria, maintains that this life is one of those literary forgeries which were thought pardonable in those days, and that it was written at a later date, and Asser's name affixed to it. Drs. Pauli and Lingard, and J. M. Kemble, do not assent to this, and Mr. Wright remains as yet without a supporter. Bale and Pits give the titles of 5 other works ascribed in their day to Asser. They are not extant. His life, after his patron and pupil's death, is obscure.—Assex, or more correctly Asm, is the principal author of the Babylonian Talmud. He was born at Babylon A. D. 383, and died 427. He was appointed head of the college of Sora at Babylon. His disciples numbered 2,400. This Talmud was as important a work to the Jews of the east for generations as Luther's translation of the Bible has been for the German Protestants since the reformation. The Jewish community have ever held him in peculiar honor.

ASSESSORS. I. In civil law, a professional

ASSESSORS. I. In civil law, a professional adviser who sits beside unprofessional judges to advise them on taking the evidence, or the state of the law. In the Roman empire the provincial governor was generally a rude soldier who knew nothing of law, but yet was the high court of appeal. It was usual to supply his deficiencies by an assessor. A civilian often attends courts-martial for the same purpose. II. In England, in the election of municipal corporations, officers of this name are appointed to assist at the election, and ascertain the result. III. In America the assessors are men who are elected by the popular vota, to assess and appraise property for the purposes of taxation.

ASSETS, in law, from the Norman-French, assets, sufficient, is the generic term for the property of a person deceased. In this country the important legal distinctions known in European law, between real and personal property, are practically abolished, both for testamentary purposes, for devolution, and as a means for payment of creditors. The peculiar character of real estate was part of fundalism, and a necessary consequence of the system is

heredrary nonors an estates. Use recent years, landed property in Ragin when not entailed, was not application hands of the heir, to the payment of Now, however, the remedies against tate are very materially extended, a copprobrium juris in the law of deletions is removed. Assets are real sonal; they are also legal or equitable, the head of real estate is included all possession, some interests in land, as rights connected with land. Legal as be generally defined as property. The cor administrator is not deemed liable, by for any other assets than those which is to his hands, which qualification does course, imply that they have come into hot into his constructive possession of In the interpretation put on this, of generally favor the executor or administrator is not deemed liable, by for any other assets than those which he to his hands, which qualification does course, imply that they have come into hot into his constructive possession of In the interpretation put on this, of generally favor the executor or administrator is not dealed under the Executors. The executors must call the office without being duly constitute mode of collecting and applying asset more appropriately detailed under the Executors. The executors must call the executors of debts in the assessed taxes, judgment debts, and according to priority of docket or as recognizances, bonds, sealed instrume bills, and unliquidated demands and The personalty must be exhausted in of these, and then the real estate in recourse to.

ASSIENTO (Spanish for treety), at stood to have exclusive reference to made by Spain with foreign countries ply of negro slaves to her South Americanes. The Spanish government settlements on the African coast, exceeding a monopoly of the supply slaves by securing a monopoly of the supply with other cial privileges. The Flemish ment the contract until 1588, afterward the until 1696, when the Portuguese to 1702 a French company accepted the terms of which were the privilege as hip of 500 tons, with merch of a sum on each imported page. It is a sum on each imported page to the South sea company, at the peace of Aix Is Chapelle. It satisfaction to Spain; and the carry lost money by it; their local agents reaping the profits, and make fortunes.

ASSIGNAT, the name of the paper in France at the time of the revoluti French government finding itself money in 1789, issued under the name signat," paper-money to be redocuted value of the property of the clergy and grants, which the government bad so thick was intended to be the composition of the com

Russian paper-money, inmoduced early in the reign of Catharine II.,
where the year 1770, principally to carry on the
wars against the Turks. The standard currency
was them as now the silver ruble, and the paper
subjections on the banks—likewise founded by
Catharine—were to represent in full the standearl allver coin. But they soon fell until the
subjection-ruble was worth only one-half,
ear-third, and finally one-fourth of the original
value; and thus it became necessary to specify
the nature of the ruble in all transactions.
From 1787 the use of assignations as currency
was general in all money affairs, both public and
private. Paul I., enraged because the merchants
of St. Petenburg, foreign and domestic, refused
to receive assignations at the government
standard in payment, threatened that he would
exect a gallows on the exchange for their special
bandit. Stringent ukases for facilitating the
elevalation of assignations all over the empire
proved wholly unsuccessful, and at the death of
Paul, and during the greater part of the reign of
Alexander I., the assignation-ruble was generally worth one-fourth of the silver. During
the wars against Napoleon the issue of assignations increased excessively, but still no considerable additional depreciation took place. With
peace and increasing prosperity the assignations
rese, and finally the government fixed the
standard at 8 rubles, 60 copecks, either of copper or assignations, for a silver ruble, one assignation-ruble equalling 100 copecks copper,
and four copecks copper making one of silver.
On account of the facility of carrying in paper the

of mor required for the interwhere almost all operature assignations soon came as to be worth a premium cover the standard. This premium naturally increased the further you went into the country. Thus assignations were dearer in Moscow than in St. Petersburg, and still dearer in Kasan, or Astrachan. These fluctuations were so irregular and inconvenient that, in 1839, a ukase regulated the value of the assignations at 3½ to 1 silver, and ordered that henceforth the silver ruble should be the legal unit in all negotiations and legal documents, that a new papermoney, called "bills of credit," should be issued, and the old assignations gradually withdrawn from circulation and destroyed. This was accomplished, and the name, the use, and the existence of assignations belong now altogether to history.

the existence of assignment together to history.

ASSIGNEE, in law, the party to whom property has been assigned or made over. It has also various technical significations; the assignee of a bankrupt or insolvent, is the party in whom the legal interest in all the property is vested to be applied in payment of debta, answerable to the agents de faillité. Formerly assignees were exclusively appointed by the creditors, but this having led to some abuses, less of malversation than of neglect, official assignees have lately been appointed both in England and France (syndigue proviscire).

agnees have lately been appointed both in England and France (syndique provisoire).

ASSIGNMENT, in law, the making over or transferring of any species of property. It also signifies the deed or instrument by which the transfer is operated. The assignment of a lease is the transfer of the assignrent of a lease is the transfer of the assignment and an underlease is that the underlease retains the reversion, whereas the assignment parts with it. Assignment in commercial law was formerly much restricted. Bills of lading, bills of exchange, were not assignable. All interests in personal property, of which a man had not the actual possession, but merely the right to recover, are choses in action. Thus a debt, whether speciality or simple contract, is a chose in action, a something to be recovered. These were not assignable. These restraints were, however, evadeby a license to use the name of the legal creditor. Even under a bill of sale of goods the property in them does not pass unless by actual delivery and possession as against bona fids creditors. Both by the English and French law, property in the power and disposition of a debtor may by process of law be transferred to his creditor.

ASSING, Rosa Maria, a sister of Varnhagen von Ense, a German poetess, born in Dusseldorf, May 28, 1788, died Jan. 22, 1840. The outbreak of the French revolution obliged her family to take up their residence in Strasburg, the native place of her mother; and in 1796 they removed to Hamburg. After the death of her father in 1799, she was burdened

ASSINIBOIN

with many cares, and began to employ her talents and education in teaching. In 1816 she married Dr. Assing, a physician of Königsberg, who removed to Hamburg; and their house, in which a generous hospitality prevailed, became a favorite place of reunion for the most esteemed literary persons of Germany. The poet Chamisso, the early friend of Rosa Maria and her brother, was a frequent visitor. She had early begun to express her inward experiences in poems and tales, but her friends could persuade her to publish only a few pieces. Her poems published with a memoir of her life under the title of Rosa Maria poeticher Nachlas, Altons, 1841, give a full insight into the genius of this admirable lady.

ASSINIBOIN, a large river in N. America, which flows north and empties into Lake Winnipeg. It is formed by two branches, one of which, the Red river of the North, rises near the head of the Mississippi, and the other the Assiniboin proper. On the banks of this river the soil is arid and sandy, and the country is in possession of the north-west company, which has on its banks several trading stations and depots. The Assiniboin Indians have recently been estimated at about 4,500 souls, and are utterly uncivilized. They are of the great Sioux or Dacotah family, and speak the language of most of the tribes found on the north of the sources of the Missouri. They subsist entirely by the chase, and have not been yet persuaded to turn their attention to agriculture.

ASSISI, a town of the Papal states in the parish of Umbria. It is especially noted as the birthplace of St. Francis, the founder of the order of Franciscans, and as containing 12 monasteries of that order. Hero are the church and monastery in which St. Francis is buried, and about 2 miles from the town is the celebrated portiuncula or church where Francis first began the preaching of his ascetic life. Assisi was once a Roman municipium of some importance, as is evident from the remains with which it abounds. The most remarkable of these was a temple of Minerva, of which several Corinthian columns still stand. Assisi is now a bishop's see, and contains about 6,000 inhabitants. The region immediately around Assisi abounds in mineral waters.

ASSIZE, a term of the common law, having reference to several distinct subjects. Its most general use is applied to an ordinance for regulating the sale of provisions, and to the periodical sittings held by the judges of England, and law officers in the various circuits of England and Wales, for the trial of lawsuits as well civil as criminal. The term is of uncertain derivation. It may be either from asside, to assess, or assides, to sit near or together, both of which are incident to the functions discharged at assizes. It is well known that the whole of England and Wales is divided into circuits or districts for the despatch of judicial business. The origin of this institution is attributed to Aldred the Great; although it was not perfect-

ed and reduced to its mode reign of Edward I., who was called to Justinian on account of the number a tance of the changes effected during his the laws, and their administration. recovery of land were anciently tried On thes of right, or of as size. sheriff impanelled 4 knights and 12 a only be held before a judge of the courts at Westminster; whereby easily pense was entailed on the jurors, the and their several witnesses. rave inconvenience, provision was Magna Charta, that an assize should be nually by a judge in each county. This tion was enlarged by the statute of 1 ster (18 Edward I. c. 3), which gave tion to the judges not only to sit in a assize, for the old purpose of settling as to land, but also for the purpose of cating all civil actions. The sittings ! are familiarly known as sittings at The term has originated from the for process for summoning and impane jury; which, following the words of t of Westminster, directs the sheriff to a jury to be at Westminster on the fi come to try issues in the county.—The unless before (nisi prius) a rived from a commission of over a ner, and general gaol delivery. Court purposes are held at each assize. sizes a year are held throughout En Wales, and in the metropolitan and counties which comprise populous Three assizes are held under mod Courts of quarter sessions are also several counties, cities, and boros sessions despatch business of a qu character, ale-house licenses, poor tions, appeals under certain stati late years, with the view of relieving sure of assize business, jurisdiction given to county magistrates sitting to decide certain criminal causes portance. Under the statute, the held by 2 judges of the superior co-minster, one of whom usually pro-criminal, the other in the civil co-served points of law, exceptions purely legal questions arising our Under the statute, the coolings at the trial, are argued so Westminster before the full court, ment cannot be entered up until : 4 days of the term next after the a gives opportunity to move the conew trials, to set aside verdicts, or ment for any cause assigned. To evils of the delay thus afforded law, a recent statute gives judge at nisi pries to certify for cution, in all cases of simple The bar at the assizes, or "upor more correct phrase is, is comp

the mind, as to give to it that unity of impre

who argue at Wee ar. At the string his forensic one a barrister ests the circuit on which he intends This is determined either by local a, or by other motives of personal.

This point settled, a barrister canuatte flit from circuit to circuit, but be one he has chosen. Sometimes, on rrangement, which is always accom-a very heavy fee, a leading barrister n from his own circuit to conduct mother,—the rigor of the rule be-would seem, relaxed in favor of a just the case where it should be though whether the celebrity of the the amount of the honorarium deterquestion of propriety, is not quite a certain pitch of forensic fame mined, a great advocate sometimes the circuit any longer, except metainer. Sir Fitzroy Kelly has re-10 for one such fee, exclusive of ers.—The Assixe of Bread, or proexclusive of s son alium), is the ordinance of a e, or of the municipality, fixing the quality of bread, beer, meat, fish, ther necessaries. This was ancient-The recessaries. This was ancienty the clerk of the market of the By some municipal charters was delegated to the corporation. Godfrey of Bouillon, and the princes for the regulation of the kingdom formed in the first crusade.

ATION OF IDEAS. There is a of the human mind, by which one lea, coming into the field of conbrings another along with it. This ignated by the term association of the property ong philosophers, there has been ion concerning the nature of this n of mind, and what in an ultimate the ground of it. Hume was the philosopher who attempted a scient of association. Closely folstle, he traced this action to cerwhich he denominated: 1, re-2 contiguity; 8, causation; and this classification is, that whenever or perception is present in the , the mind spontaneously recalls houghts or perceptions resembling hose which occurred to the mind in time or space; or, 8, those which of causes identical with, or similar to we recognize as the cause of the ception, and also those which are or effects of the present percep-those which are so strongly conthe present perception as to be res opposites in one or all its features. Hume considered association the principle of our mental activity. ot to be understood that the prinociation so regula: the action of

and recollections desirable to a fixing of its fac-ulties on a given subject. On the other hand, if we were to follow the spontaneous sugges-tions of this power of association, the chain of our thoughts would present the most grotesque and whimsical appearance. The judgment must be exercised in selecting those associated be exercised in selecting those associated thoughts which are perceived to have a natural connection with each other, in order that our process of reflection when represented to gives rise to a classification of associations into:

1, natural and 2 antidated 1, natural, and, 2, artificial, or arbitrary. By natural associations are meant those which are founded in some natural resemblance spontaneously suggested to every mind, or when sug-gested justify themselves on natural and universal laws of mind; whereas by artificial or arbi-trary associations are meant those which have been the result of an accidental individual experience, or of an intentional individual effort for the purpose of aiding the memory, and for the purpose of aiding the memory, and which, therefore, have no universal and general validity. An instance of the former is when I associate a book with its author, as a cause; of the latter, when I associate a certain book with a found it there. Dr. Thomas Brown made the association of ideas to depend on a mental law which he denominated suggestion, and divided into simple and relative. He reduces all the intellectual states to these two capacities. In simple suggestion, which he defines as that by which the mind associates ideas and emotions according to two classes of laws, primary and secondary, he includes all those faculties or activities denominated con-ception, memory, imagination, and habit. At-tention and recollection are the first two of these, combined with desire or will, and revery is the third without any volition. In relative suggestion, defined as the feeling arising in the mind when two or more objects are perceived or conceived, he includes judgment, reason, and abstraction. All this theory of Brown in plies that suggestion is an ultimate and simple fact or activity of the mind. If this were the case, it never could be voluntary. All simple activity must be spontaneous. Brown includes memory under suggestion. The fact is evidently the reverse. We are compelled to associate the reverse of the re ly the reverse. We are compelled to associate things which have been in the field of consciousness together or simultaneously, whether because naturally or accidentally thus allied, and simply because this association grounds in the fact that memory is inexorable and involuntary, and so brings the things thus once allied in consciousness into the field of conanicum consciousness into the field of consciousness together, when it brings them at all. Instead of memory being included in association, memory is itself the inclusive, and shuts up association or suggestion within itself. We have no power over a train of associated thoughts as they am through our minds like thoughts as they run through our minds like a chain drawn through our hands, simply because we had not the power over our expe-

comedians. Between Moli

riences at the first, when they were stamping themselves upon the tablet of the memory. I meet a man to-day with a hat in his hand. I never saw a hat before. To-morrow I find a hat by the road-side. I can no more restrain the thought of the man I saw yesterday than of the hat. Memory brings both of them into the field of consciousness, because they both make up the impression or picture of which the hat was a part. A complete history of the doctrine of the association of ideas is given by Sir Wil-liam Hamilton in his edition of the "Works"

of Dr. Reid, note, p. 889.
ASSONANCE, Assonant Rhymes, asonan cis, in Spanish poetry, a peculiar species of rhyme, less complete than that in general use. It consists in the correspondence of the last ac-It consists in the correspondence of the last accented and all subsequent vowels only, while the consonants may and should be different. Rhyme, as it is used in the English language, is called, in Spanish, consonancia. Thus, b(a)r(b) is assonant, but not consonant with c(a)l(a)m(o), and pl(a)t(a)n(o). B(u)scas is assonant with c(u)ran. So in English, "baby" and "chary" would be assonant to each other. Assonant rhymes do not generally follow each other in pairs, as in ordinary English rhyme, but alternate with a blank verse. as:

but alternate with a blank verse, as:

A caballo salió el More Y otro dia desdielado En negras andes le vuelven Per donde salió à caballo.

Calderon, and the other classical dramatists of Spain, always use asonantes. ample of double asonantes: Here is an ex-

Aguárdate, dixo el pavo Al cuerro de lejos Babes lo que estoi pensando Que eres negro y seo.

ASSOUCY, CHARLES COYPEAU D'. This French literary gentleman, who was born in Paris in 1604, and died in 1674, was one of the most grotesque characters of the literary gypsy order of the 17th century. He was educated by the Jesuita, and his mind became so precociously developed that at the age of 9 he ran away from his parents to England. Calais he passed himself off as the son of Calais be pe e son of Nos-Calais he passed himself off as the son of Nostradamus, and narrowly escaped being drowned by the good people of that town, who took him for a sorcerer. In 1621 he turned up as a music teacher, at Montpellier, but being expelled from the town, he betook himself to Turin, where he insinuated himself into the good graces of the downer duchess of Savoy. He had a knack for flash songs, and played the lute admirably well, and on his return to Paris he found favor in the eyes of Louis XIII., who was at times afflicted with hypochoadris, and he found favor in the eyes of Louis XIII., who was at times afflicted with hypochondrie, and found a pleasant relief in the harmonious buffound a pleasant relief in the harmonious buf-fooneries of Assoucy. In 1654 he went on a great musical expedition all over southern France from Lyons to Montpellier, giving concerts in every town and village, and spending in sumbling the money and presents which he received, for gambling was one of his foibles. At Lyons he fell upon Molière, with his inferent troupe of

were naturally many bonds of symps months passed before the merry a could drag himself from the society of dramatist. In Montpellier Asso an accident. He had taken two a him on his ambulating music sprightly creatures, dressed in the pages, who by the people of Lyons posed to be women, while the anti-Montpellier declared them to be yo Lyons he had the reputation of a but in Montpellier it was much won ural crimes being punishable with de in Montpellier, Assoncy narrowly es stake by a precipitate departure for A the Papal states. From Avignon he has the Papal states. From A vignon he be to Turin, where he resumed his function old acquaintance the venerable dows of Savoy, but some satirical vers ated to He was reque into disgrace. Sardinian capital, and proceeded to B satire again involved him in differ used strong expressions against the and was thrown into prison. While made a lucky hit. St. Amand, if poet, had given great offence to the l oet, had given great offe poet, had given great offence to the i his tirade against Rome, in his poet Rome ridicule. Assourcy replied to felicitous manner, and in verse. See tial persons were pleased with his m what they considered St. Amand The pope himself, Clement IX., was isfied with it, sent for him, and yes with his portrait engraved upon a g From Rome he went to Marseille several years he observed the greation. At length he returned to Pass but there he found the Montpellier suspended over him, and on his a marched off to prison, from whi he was released, after a detention the poor fellow turning out inne-During the rest of his life he deto the composition of various weeks to him by his singular experiences, his poetry is pleasant and graceful a he was not intended by nature for genius, and became a but of ridicule

genius, and became a butt of ridies crary notabilities of his day.

ASSUAY, or Asuay, a departm dor, lying mostly east of the An the Amazon and Putumayo rivers ing from the equator to lat. 5° 30' long. 65° 30' to 70° 20' W. It a 926 square miles and about 20' tranta mands fire sixths of whom itants, nearly five-sixths of whom It is well watered, having the Amb Nanay, Pequena, Chambyra, Past and Paute rivers traversing it, i and and Paule rivers traversing it, smaller tributaries of the Amazo mayo. The whole western portio vated desert, called the Paramo Assuay, being a plateau formed by tion of the Andes by 2 chains a running from E. to W. and enclose

Quito. The remainder of the departs fartile, but is in the hands of Indian mospt a few towns. There are some if gold and silver in the mountainous to The principal towns are Cuença, ruma, Tumbez, and San Juan de Braca-

MPSIT, in law, "he undertook," the flous title under which an extensive actions at law are included. After the cause of action, the pleadings state recepon "the defendant promised to Assumpsit may be either special or also called indebitatus assumpsit. The former are included actions upon contracts or agreements of all kinds; for derelictions of duty by professional micra, warehousemen; in short, under rematance where a contract is in actual a crean be predicated from the relative parties. Common assumpsit is an reaght for goods sold and delivered, and, the Theoretically all actions of a sre brought to recover compensation ature of damages; but, where those can be immediately ascertained by the he parties, as for goods sold and derinare a price has been agreed, then it a assumpsit.

a assumpsit.

(PTION, a festival of the Roman church, instituted to commemorate at of the Virgin Mary into heaven.

The very early period it has been the general churches the western and oriental churches the death the Virgin was taken and soul, into heaven. This event promiscuously in the ancient edul writings, the "assumption," "pastropose," and is mentioned by various hors, among whom are the learned of Crete, in the 7th century, and party of Tours, in the 6th. The he institution of the festival is unual it is mentioned as having been celebih great solemnity before the 6th century Greek and Latin churches. It falls

Sth of August.

MPTION, a district or parish in the rt of the state of Louisiana, having t of 820 square miles. It has withnits a part of Bayou La Fourche. Venet. The soil is very fertile, and voted to the cultivation of sugar, of 1850, it produced more than any ish or county in the United States, erville parish. Pop. in 1850, 10,538, half of whom were slaves.—Also, a so in the above parish on the W. side La Fourche. It is the county seat of on parish.

on parish.

IPTION, or Asuncion, a city of South
the capital of the republic of Paraituated on the left bank of the Parax, a short distance above the point
receives the waters of the Pelcomayo,
niles above Buenos Ayres, lat. 25° 18'

S. long. 57° 35′ W. It was founded in 1535, but for nearly 800 years was but a small village with a fort. During the present century, however, it has grown to be a place of some importance. It has a cathedral erected in 1845, 5 churches, a government palace, a hall for representatives, a public library, 4 convents, a custom house, theological seminary, and college. The houses are generally of brick, some of the streets are paved, and the appearance of the town, compared with many South American cities, is neat and cleanly. It has considerable trade with Buenos Ayres, Chili, Peru, Tucuman, and other portions of South America, exporting tobacco, hides, cedar planks, mandicoa, and, above all, maté or Paraguay tea, for which there is a great demand all over South America, and which is produced in greater perfection in Paraguay than elsewhere. Its former rulers interdicted trade with foreign countries, but the government for a more extended commerce. Pop. about 12,000.

the government for a more extended commerce. Pop. about 12,000.

ASSUMPTION, one of the Ladrone group of islands in the Pacific ocean, lat. 19° 45′ N. long. 145° 27′ E. It is of volcanic origin, rises to the height of about 2,000 feet, and is nearly 10 miles in circumference. It produces cocoanuts, rice, oranges, and bread-fruit.—Also, an uninhabited island in the Indian ocean, 8. lat. 9° 14′ E. long. 46° 40′, a dependency of the Mauritius.

ASSURANCE. See Assumpties and Increase.

ASSURANCE. See Annuities and Insurance.

ASSWAN, or Assuan, the ancient Syene, a town of upper Egypt, on the right bank of the Nile, opposite the island Elephantine, in lat. 24° 5′ N. It has considerable commerce in dates, senna, wicker-baskets, and slaves from Abyssinia and upper Nubia. The surrounding scenery is picturesque, and the Nile here presents the appearance of a small lake. On the southern side are the ruins of an ancient Saracen town, which was so populous during the middle ages that 20,000 persons are said to have died there by one visitation of the plague.

ASSYE, or Assaye, a village of Hindostan in the Nizam's dominions, 28 miles north of Jaulnah,

ASSYE, or Assaye, a village of Hindostan in the Nizam's dominions, 28 miles north of Jaulnah, near which, in 1803, the Duke of Wellington (then General Wellesley), with 2,000 British troops and 2,500 sepoys (native soldiers), defeated the combined force of Scindia and the Naspoor Rajah, amounting to 30,000 men.

Nagpoor Rajah, amounting to 30,000 men.
ASSYRIA. Both the geographical extent and history of this ancient kingdom are involved in much obscurity. We are mainly confined to 8 sources of information, and those are sufficiently scanty, viz., the Bible, Herodotus, and Ctesias; and there are few particulars in which they do not present some discrepancies. The postdiluvian inhabitants of the world, or at least the majority of them, had settled in the extensive plain lying between the Tigris and the Euphrates. There they attempted to establish a kingdom and a religious worship which should consolidate them, and so prevent

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the evils they feared from being scattered abroad over the face of the whole earth. From this project they were soon barred by the divine interposition confusing their speech. From the deserted Babel, Nimrod and a portion From the deserted Babel, Nimrod and a portion of his followers journeyed northward to the great Carduchian chain, where, on the eastern bank of the Tigris, in the vast region of Mesopotamia, they founded the city of Nineveh. This was the germ of Assyria. Assyria, in its earliest history, may be thus defined:

For its south-western boundary it had the Tigris and for its posth-seatern the Tagrees mount. gris, and for its north-eastern the Zagros mountains, extending northward to Armenia, and sams, extending northward to Armenia, and southward to the parallel of latitude on which is the city of Babylon. The tradition of the inhabitants of that territory to this day goes to prove that the kingdom was originally founded by Nimrod. Assyria being thus established by a division of the Babylonian population, it would be natural to expect that both kingdom would be feeble for a time. We need not wonder, therefore, that the brief histories of the der, therefore, that the brief histories of the period bring to us small record of the doings of these necessarily rival empires, for several censarily rival empires, for several centuries. Josephus mentions that the Assyrians Abrahad dominion over Asia in the time of had dominion over Asia in the time of Abraham, but this is too vague a statement either to inspire much credit, or give much information. He also styles the Chushan Rishathaim, to whom the Israelites became subject in the time of the judges, an Assyrian king. With these two glimpees of the Assyrian power, we must be content to pass over a hiatus of several centuries. In the time of Jonah, an Assyrian king is mentioned, but not named. The first Assyrian monarch who seems after the founder of the ampire to emerge from the realm of myth into empire to emerge from the realm of myth into that of history, is Pul, who is named in 2 Kings xv. 19, as coming up against Israel. But a xv. 19, as coming up against Israel. But a doubt gathers even about him when we recognize in the names of other Assyrian kings further on, the recurrence of the same monosyllable which constitutes his name. We are struck with the apprehension that we may only have reached an Assyrian royal title, instead of a personal king. But at least about this time ing f Assyria seems to be rard as a reigning power, though previously been so. may have r ko the contests which the divided tril it was the cust of fortune scenicu to we to throw themselves for a of Assyria. The hi known in Biblical history as the whom Ahaz king of Judah, formed a cration in his troubles with Pekah and at the expense of the sacred vessels of the ple, and the ornaments of the palace, cordance with the stipulations of this pu alliance, Tiglath-Pileser made war up confederated kings of Syria and Israel.

maneser succeeded him, and complete jugation of Israel, and the destruct capital (721 B. C.) This added both tent and strength of the Assyrian essuame king also conquered Phomicia exception of Tyre, which successfully siege of 5 years. The close of Shareign marks the era of Assyriab Her empire reposed upon the Medithe Caspian, and the Persian seas. It an expedition had been undertake Egypt, the probable cause of which Egypt, the probable cause of which found in the attitude into which powers came to each other in the ta tween Judah and Israel, Egypt favor and Assyria Judah. The conspiracy with So, king of Egypt, will be rece the alleged cause of the destruction of and the entire reduction of Israel to of an Assyrian province. The against Egypt could not have been cessful, for, if we may trust chronic few years after we find Hezekiah ste throw off the vassalage into which had brought the kinglorn of Juden had brought the kingdom of Judah though the attempt was unsuccess the artful policy of the Assyrian a it suffices to show that Egypt was bu subdued. Indeed, the very failure in account of a contemplated expensive at that very moment, upon complete its subjugation. This complete its subjugation. This tin tempt was more successful, and to of the Ptolemies paid heavy tribus nacherib. The result was not, how out disaster to the Assyrian fortune mored attack from Ethiopia, and ing pestilence that visited his a pelled the Assyrian monarch to precipitous retreat from the precipitous retreat from the see quest (2 Kings xix. 85), without aw self, as he had intended, upon Hasal insurrection in the Judsean provin while the ancient kingdom of Babyles in the condition of an Assyrian provably ever since the founding of the kingdom at Nineveh, and gove In the reign of Sennacherih, his don had been the viceroy of Baby In the resp...

don had been the viceroy or
ed for the purpose of comenting
the apparently undering provine
pire. On the death of Sennacheril
pire. The death of Sennacheril
to the throme. He app polassar, a Chaldean, to the polassar, a Chaldean, to the Babylon in his own stead, in the strengthen his kingdom, by rest growing Chaldean power in Baby premacy which, by the policy of hosen taken from them. This king en deterred, and the descendants father had b Semaria with Erra iv. 2). Chaldean eleme to the fort



d the growing importance of Babyy threatened the very existence of rom this time, Assyria losing the she had for a century maintained, in the continuous the same of the same sinks again into the realm of the and Babylon takes up the sceptre ria lays down. This transfer of to the long-deserted valley of the securs in the reign of Ninus, Nebuand Sarac, the successors of Esarthe Assyrian part, and was consume the viceroyalty of Nabopolassar who, with the assistance of Cyax-a Media, destroyed Nineveh, and yris proper to a province of Media, and name the remaining history of Asppear.—Herodotus makes the Asm to have continued from the time in first distinctly forward into his-h a period of 520 years, which, Niebuhr, is to be increased by 123 g which Nineveh continued a pow-after the independence of Media ia. Ctesias assigns it an existence arra, which is probably fabulous. I constitution of Assyria was like dea and Persia, a despotism, divided ration into satrapies. The religion dom was Chaldean, which serves explain her overthrow, supposing ower. The language of Assyria was, but Medo-Persian, which seems a branch of the Indo-Germanic.

nal inhabitants of Assyria proper we been Koords. Its territory pretty sponded with the present Turkish Mosul, Koordistan, and the upper The principal rivers of Arabi. The principal rivers of the Euphrates and Tigris, and the ittle Zab. The upper part is moun-ile the southern is level. Metals itele Zab. The urral le the southern is level. mountains. The vegetable probe mountains. The vegetable pro-those of the northern tem-It is divided geographically into rovinces by the Great and Little Zab most southern was variously middle one was known to the the Adiabene, while the northern Aturia, of which Assyria is proba-orruption. This, therefore, may be the central point of Assyria, from ted the power which in the palmy Imaneser and Sennacherib spread a of 400,000 square miles, and conommerce of 3 seas. There is much dates in those few writers who ion of Assyria, to reconcile which n critics have resorted to the supsecond Assyrian kingdom, partly with that whose history is here longer continuance. It is, however, ble that the confusion grows out of using Babylonia, Chaldea, and Asymously, by the ancients. (For an ASTRIAN ARTIQUITIES, see NINEVER.)

AST, GEORG ANTON FRIEDRICH, a German philologist, born at Gotha in 1778, died in 1841 a German philologist, born at Gotha in 1770, used in 1921. He was appointed in 1805 professor of classical literature at Landshut, and in 1826 was transferred to the university of Munich in the same capacity. In the latter part of his life he devoted himself almost exclusively to the study of Plato, of whom he produced a new edition in 11 volumes, with Latin translations and volu-minous commentaries, and a Lexicon Platonicum in 8 volumes. ASTARTE.

ASTARTE. See ASHTORETH.
ASTBURY, J., an English manufacturer,
born 1678, died 1748. He is celebrated in the
history of the Staffordshire pottery trade. He
learned the operations of the trade from the Eulers of Nuremberg, who had established them-selves at Bradwell. He set up an establishment of his own at Shelton, and was the first to apply pipe clay to the fabrication of cooking utensils. He made many other inventions in his trade which were all successful.

his trade which were all successful.

ASTELL, Mark, an English authoress, born at Newcastle-upon-Tyne in 1668, died at Chelses, a suburb of London, May 11, 1781. She wrote "An Essay in Defence of the Female Sex," "A Serious Proposal to the Ladies," &c., with the purpose of raising the standard of female education and female character. She was, however, a warm conservative, and decidedly opposed to the new-fangled spirit of the times.

ASTER (agrae, star), a very rich group of

opposed to the new-tangled spirit of the times.

ASTER (αστηρ, star), a very rich group of plants, of the fam. composites Adans. (synantheres Rich, asteraces Lindl.), placed in the syngenesia superflua by L., distributed in two subdivisions of Endlicher's tribe asteroides of the sub-order tubulifors of said family. The composites are one of the most natural and the most perfect of all families of plants as well as the most near the most near the most near the sub-order tribulities of plants as well as the most near the most nea one of the most natural and the most perfect of all families of plants, as well as the most numerous, being spread over every country of the globe, and containing 15 of all known phanerogamous genera. They predominate on the continent of America. The true genus aster is most developed in North America, especially in the United States, which are thus literally starmannical. spangled. Together with peculiar conifers, oaks, walnuts, the genus solidago (golden rod, of the same sub-order with the true aster), it charac-terizes the northern zone of North America, as one of the botanic regions into which the earth is divided, and which is named from Michaux; the southern zone, characterized by trees with shining broad leaves and large flowers, being called the region of Pursh. The plants promiscuously called asters belong to several genera, of which the real aster is richest in species. Out of 150 species cultivated in Europe more than 100 are netives of N. America. more than 100 are natives of N. America. Character of the group; corolla of perfect flowers regular, 5- seldom 4-toothed; styles flowers regular, 5- seldom 4-toothed; styles linear; ovary inferior, 1-celled, ovule erect. Flowers capitate; involucre imbricate, lower scales often spreading; florets of the ray generally most than 10 (corp. rellaw). Recented ally more than 10 (none yellow). Receptacle naked; pappus (egret) simple, in few double, hairy. I. ASTER: herbaceous, many species

very stately; from 4 inches to 10 feet high; very stately; from 4 inches to 10 feet high; ray-colors purple, or blue, violet, lilac, white, rosy (of all shades); disk yellow or brown; some change color with age; inflorescence; panicle, or corymb, or raceme, or solitary, or spike; leaves mostly simple; blossom from July to November, some twice or through the summer, if their stem be cut down; some flourish in fields, near speaks group near swamps or sail marshes; some roads, some near swamps, or salt marshes; some in rocky soil, mountains; exhaust the soil; propa-gable by suckers. The finest American species re, A. nova anglia: stem erect; leaves narrov are, A. nova angliss: stem erect; leaves narrow, lanceolate, clasping, auriculate at base, crowded on branchlets; involucre scales loose, colored, longer than the diak; hairy; flowers great, blue violet, crowded in terminal corymbs 3 to 8 feet high. A. punicaus: habit of the preceding; stem purplish; leaves serrate, rough; flowers purple or blue in paniclea, 6 to 10 feet. A. cyansus: stem wandlike, branches spreading; leaves linear; flowers many, large, blue in paniculate racemes. Very handsome, 3 to 4 feet. The other fine species are: horisontalis, spectabilis, multiflerus, califernicus, macrophyllus. Species changing the color of flowers: surculosus, esvicolor, mutabilis, eminens, paniculatus. Among the non-American species are: A. alpinus, very small; flowers great, violet, disk yellow. A. emellus (pink of Christ), and emelloides, with numerous very large fine blue flowers. A. parisionsis, very elegant. A. caspinus, curf-like), with large whitish-violet flowers. All are called in England Christmas daisies. II. Callistensa or callistephus (makes, beautiful, ovenua, crown), or asterchinensis, in French Reine-Marguerits, on account of its valuable properties and numerous colors of all shades except vallow. Grows easily in lanceolate, clasping, auriculate at base, crowded II. CALLESTENNA or cattestepows (macon, tiful, evenue, crown), or asterchinensia, in French Reine-Marquerita, on account of its valuable properties and numerous colors of all shades except yellow. Grows easily in all soils, resists heat and drought; sown at different times, it blossoms through the spring, summer and autumn; simple, double, of most numerous varieties. III. OLERAMA Holland; of most numerous varieties. III. CLEARIA
DENTATA, or A. tomentesus, of New Holland;
shrub; leaves oval toothed, woolly beneath
flower-heads solitary, large, white; hot-house
plant. II. and III. are of Endlicher's diplopappes (double et). IV. EURYBIA (widespreading, in A. argyrenhyllus (silverleaved), of w leaved), of growth to 10 whitish grav flowers in ' v. . white. white. House 7
part), incied, A. when we like in July; 2 feet
(good, excellent), A. was
Good Hope; bush, blod the 1
blue, disk yellow, 1½ to 2 feet; 1
All species of this group are very
matia. Many congenera of the 1 Hous matic. Many congeners of the same dicinal, being astringent, or construction of the strongly aromatic.

ASTER, Exper Ltr. a P

" as the author

the outset of his career he served army, in which his father, who is 1804, held a high position. His f ment was in connection with a pla tification of Torgau, a town in Fra which in 1810 was adopted by After fighting in the ranks of the in the Russian campaign of 1812, for some time the command of the Russian service. Here he took putter of Rantzen and Leipsic, and tles of Bautzen and Leip ties of Bautzen and Leipsic, and himself by his prowess during th 1813 in Upper Lusatia. In 1815 himself with the Prussian array, active display of his proficiency is sciences, he rose in the same year of major-general and inspector-g Prussian fortifications. He was an admethernational and distributions. ed mathematician and tactitian, as edge, fostered by an assidnous systems prevalent in the difference ganizations of Europe and strengt long experience, found a field application in the fortification of Ehrenbreitstein, which was effect superintendence. Of these 2 for came commandant in 1825. **At** 1 he continued to attend to the di tor-general of all other Prussian and chief of the corps of enginess In 1827 he was made lieuten 1837 member of the privy counci general. He left several works, to of which appeared at Berlin in 1 his brothers, all employed in the vice of Saxony, KARL HEMESON den, Feb. 4, 1782, died there De came known to fame by his writing topics. His Lehre som Fastungs of the Science of Warfare in ea Fortresses), was translated into a languages, adopted as a text-subject, in the military academie and passed from 1812 to 181 editions.

editions.

ASTERABAD, a province and sia, S. of the Caspian see, from about 10 miles distant. The purvatured and fartile, but the degree Tooreomen tribes prevent its infiprofiting by its less adventages, of no importance in itself. A frontier town to the Caspian, who traversed by Rassian vessels, it divales in fature military operation Asia. The Bussians have intendstanced in the Caspian, and it rumored that they had obtained up the Persian government to estall troops there.

ABTERIAS, a genus of military

ABTERIAS, a genus of unlish inding according to the division of L. They are plandivision agents



a beaches are asterias; under each
y extends a long channel, through
in the sides of which the feet or Foject in great numbers. Each foot in a little disk which attaches itself tees by expulsion of the air. These motion of the animal, which is furted by small movable spines spread

wer surface. JEK, from the Greek, meaning a . Its modern typographical use is to note at the foot of the page, or where weral on the same page, it is genera to indicate the first note. In anscript writings, where it is sometimes s (*), it is a critical mark to signify the passage against which it is set is t place, or that it is a remarkable or assage in itself; it is the antithesis is or obelisk (†). When used along belisk it signifies passages which are

at in the wrong place. If, a term in nautical language used hinder part of a ship, or the space

skip.

DIDS, a group of small planets, restween the orbits of Jupiter and

""""

in Jan. 1801, and a 1st was discovered in Jan. 1801, in Dec. 1845, the 48d, April 16, 47th, Oct. 8, 1867, by Mr. James at the national observatory, Wash. C., and the 51st, at Nimes, in sa. 24, 1857, by M. Laurent, of the

A (Gr. as \$\mu_a\$, from as, I respire), a recterized by an extreme difficulty ion, which is worse at certain seasons are included periods of the year, and particular periods of the generally most severe at night.— ty of breathing is increased by vio-ms, damp atmosphere, excess of any exercise, running, walking quickly, g a flight of stairs. It is also more a the horizontal position, and hence is felt in bed at night; the warmth has excites increased secretion of salicles, and this blocks up the air rece completely, causing paroxysms
requent than during the day. The
relief by sitting upright in bed,
his body forward, and endeavoring the chest mechanically by every thmatic patients in the following ly 1,800 years ago:—"Sub dio ambut, et spirant quasi totum aërem trat." The description is just as good odisease in our day. The patient o disease in our day. The patient in the open air, and during paroximal if he wished by intensely anxtraining efforts to draw the whole into his lungs at each inspiration. aroxysm ceases and the chest has ed by coughing and expectoration, the comparatively easy for a time, somewhole day; but night brings on the

same obstruction of the air passages by inspissated mucus, and the same paroxysms of impending suffocation, coughing, and difficult expectoration. Old persons are more liable to the disease than young, as they have generally been more ex-posed to the extremes of heat and cold, and the inclemencies of weather in all seasons; not to mention bodily and mental fatigue, excessive mention bodily and mental fatigue, excessive sensual indulgence, sedentary habits, confined atmosphere, and various debilitating causes which injure the constitution generally, and the nervous system more especially; predisposing the lining membrane of the air passages to chronic irritation, and rendering them sensitive to every change of temperature; colds and catarrhal affections become gradually chronic, the air passages become habitually obstructed, and asthma finally becomes the settled penalty for asthma finally becomes the settled penalty for all the past transgressions of this kind against the laws of nature and the health of the transgressor. Some persons who inherit weakly constitutions from asthmatic parents, are pre-disposed to become affected by the same disease, more easily than others, and only guard against it by extreme precaution, in avoiding all excessive sensual indulgence, and exposure to fatigue of any kind; bad air, ill-ventilated rooms, sedentary habits, ardent spirits, poor food, extremes of temperature, and all the causes which, in fact, are apt to bring on the disease, where hereditary weakness forms a predisposing liability to the affection.—The pathology of this disease differs, of course, in different cases, and hence the apparent difference of opinion among medical writers and authorities; some describing the disease mainly as a nervous affection; others as the result of organic lesion of the heart and blood-vessels; while others again attribute it to dilatation of , more easily than others, and only guard while others again attribute it to dilatation of the air-vessels of the lungs. All these and many other complications may and do exist. It is now believed that spasmodic asthma is caused by a spasm of the muscular fibres encircling the bronchial tubes, especially the smaller branches. The existence of these fibres has been proved by eminent physiologists, who have produced contraction by galvanizing them. In common asthma, the lining membrane of the air passages is more or less affected as in chronic bronchitis, but the affection of the mucous membrane extends further down into the lungs, the air-cells are more obstructed, and the confor mation of the chest itself is often somewhat contracted and defective. The action of the diaphragm is imperfect, as well as that of the walls of the chest, and hence it is that, from want of innervation and free action in these parts, the disease is commonly deemed nervous, as distinguished from chronic bronshitis, which affects the bronchial mucous memnervous, as distinguished from chronic bronchitis, which affects the bronchial mucous membrane chiefly. In spasmodic asthma, the nerves are still more deeply implicated; their action seems defective in the respiratory organs, as stammering shows imperfect nervous action in the organs of speech; and in both cases the difficulty is increased by physical or moral ex-

Chronic asthma, however, is not a disease. It seldom shortens life, ere patients carefully avoid all violent em where patients carefully avoid all violent emo-tions, exercises, and excess, although spasmodic percyms may endanger life at any time where these precautions are neglected. The precur-sory symptoms of asthma are languor, flatulen-cy, and general debility; headache and a feel-ing of heaviness over the eyes; uneasiness about the precordia, with a sense of fulness and straightness in the epigastrium.—Attacks of spasmodic asthma generally occur during the first slaem, soon after midnight, or very early of spasmodic asthma generally occur during the first sleep, soon after midnight, or very early in the morning. The patient suddenly awakes with a sense of suffocation, tightness of the chest, and difficulty of breathing. The respiration is wheezing and laborious, the shoulders are raised, and every effort made to enlarge the chest. After a short time, the pale and nxious countenance becomes suffused or bloated, and covered with perspiration. The pulse is usually quick, weak, and irregular; the lower extremities cold. When cough and expectorstion come on the patient is relieved, and soon the pulse and respiration assume their natural state. The spasm, however, may continue half an hour or more, and even as much as 3 or 4 hours, in some cases, before relief can be obtained by coughing and expectoration. During the paroxysm, the muscular fibres are in a state of spasm. By this contraction the lungs are in a manner contracted within the chest, and the walls of the thoracic cavity, pressed by the weight of the external atmosphere, lose the weight of the external atmosphere, lose that sonorous elasticity produced by the natural distension and fulness of the air-vessels in the distantion and fulness of the air-vessels in the lungs.—Asthma is generally complicated with diseases of the heart or with chronic bronchitis, acting as a source of permanent congestion, predisposing the parts to be more easily thrown into a state of spasm. Sometimes severe attacks of dry catarrh are aggravated by spasm, as in the "bronchial asthma" of Andral.—The most common consequences of the disease are most common consequences of the disease a chronic inflammation and dilatation of the bronchi; emphysems and cedema of the lungs; tubercular deposits are al moptysis; frequent concomitants; hypertrophy and dil-tation of the cavities of the heart; effusion into the pericardium, the pleura, and sometime congestion and effusions in the head, giving ris to come or apoplexy. The treatment of the eroxysm consists in administering n and antispessmodics, to be given, if soon as the first sensations are felt. Str. be, laudanum, and other, are among the band stramonium smoked as tobacco is of ry useful, but should be used with caution here the heart is diseased. Those medicines are most effectual which produce expectoration. In the intervals of paroxysms, the general health of the patient requires due attention, and most careful treatment.

ASTI, a city of the Sardinian states, the Asta Pompeia of antiquity; in the middle ages a place of considerable importance, the capital of the republic of Asti, the independence of which was recognized in 1098 by Humbert II, count of Savoy. In 1155, Asti was reduced to ashes by Barbarossa; subsequently it beloned successively to the king of Naples, Robert O'Anjou, to the Viscontis, and the dakes of Orleans, and eventually, in 1528, was cooled by the emperor Charles V. to the house of Savot Asti is a flourishing town of 20,000 inhabitum situated not far from the junction of the Baland Tanaro rivers, within a short distance old fortress. Its sparkling wine is well known and it is also famed as the birthplace of Albert

Alessandria, surrounded with the wars cold fortress. Its sparkling wine is well known and it is also famed as the birthplace of Alice ASTLE, Tuomas, a celebrated English and quary, and a man of great eradition, bear in Staffordshire in 1784, died in 1803. He satisfied to the Archaelogia, and assisted in the publication of many records, MSS., catalogue &c.; was appointed keeper of the reserve in the Tower. His principal published work we entitled "The Origin and Progress of Writing as well Hieroglyphic as Elementary, 1784," a second edition of which appeared in 1803.

ASTLEY, Sin Jacon, afterward Lord Asia, one of the most callant and most constant allows.

ASTLEY, Sin Jacon, afterward Lord Assences one of the most gallant and most constant allegents and commanders of Charles I. against the parliament, died in 1651. He was major-rosed of the first army, raised for the king, under the earl of Lyndsey; and commanded the interprint the first battle of Edgehill, in which the first of the royalists came so near to gaining a complete victory, that, if the headlong and most our Rupert, whose rashness lost the king and every action in which he was engaged, as wheeled on the flanks and rear of the Permainfantry, after defeating their horse, instead chasing the beaten troopers, 5 or 6 miles of the field, the war had been finished in a day, sit the king of England would have grasped about despotic power. At Nassely, being now advanced to the peerage, he, as usual, commands the foot of the royal army, which, as usual swords and the butt-ends of their muskets, but the foot of the royal army, which, as usual firing only one volley and charging with use swords and the butt-ends of their muskets, but the enemy's infantry and threw them into une confusion. Rupert had broken the left way of the parliament's horse, and taken 6 of the best cannon; but again, instead of wheeling the flank of the foot, he chased to the rear, as never returned matil the field was lost. On the king's left, Cromwell with his irresides between and overpowered Sir Marmadala Landale's cavaliers, and the king's horse reservated infantry on all sides, and, not until after sever repulses, and with tremendous loss, cut is pieces, and took all the guns and bactories, as even the king's private carrespondences are created by the defeat, the war was at once resolution a series of small partisan encounters, until the series of small partisan encounters, until the series of small partisan encounters.

se as the parliament commanders found to crush the several divisionary powers arious counties into which the scattered bated army of the king had resolved The last of these conflicts, which termine campaign of 1645, and in fact the war was the total rout and defeat of Lord who, as it is related by Clarendon, upon his march from Worcester toward with 2,000 horse and foot, the king appointed to meet him with another 1,500 horse and foot, letters and orders isd and were intercepted; whereby the came to have notice of the resolution, was much greater strength from their garrisons of Gloucester, Warwick, Covad Evesham; so that the Lord Astley sooner upon his march, than they folling; and the second day, after he had all their quarters, they fell upon his troops; which, though a brave resister made, were at last totally defeated; Lord Astley himself, Sir Charles Lucas, is lieutenant-general of the horse, and the other officers who were not killed, keen prisoners. The few who escaped scattered and dispersed that they never gether again, nor did there remain, at minute, any possibility for the king any other troops to the field." The expired with its first possessor; but his sents still hold his original rank, as in the county of Norfolk, among the which shire they hold a distinguished and the Christian name, Jacob, of the lonest, brave, plain major-general, still at the head of the family.

EY, Philip, a famous equestrian, was

EY, PHLIP, a famous equestrian, was Newcastle-under-Lyne in 1742, and died, Oct. 20, 1814. His father was a cabier, and in 1753-'4 removed with his son lon, where they pursued that trade 19, when young Astley enlisted in Elipht horse. He served in the German e7 years, and distinguished himself in ctions by his bravery; he was rapidly ad, and particularly noticed by his gendrate he return of the army from the war, ned an honorable discharge and certificarrice. Being an expert horseman, ey now commenced practising in public questrian; by constant industry and he at length acquired sufficient means him to build a circus or amphitheatre mader the titles of "Amphitheatre fouse," "Royal Grove," "Amphitheatre," and "Royal Amphitheatre," he ad successfully until 1794, when it was d by fire, its owner being then with the the continent. In 1795 it was rebuilt in destroyed by fire in 1803; but with ristic perseverance Mr. Astley erected mphitheatre in 1804, which he leased n. During his life he built for his own heatres in London, Paris, and Dublin,

and in connection with Antoine Franconi assisted to establish the "Olympic Circua." He published several works, including "Remarks on the Duty and Profession of a Soldier," 1794, "Description and historical Account of the Places near the Theatre of War in the Low Countries," 1794, "Astley system of Equestrian Education," 1801, &c. Mr. Astley was a man of imposing appearance, being upward of 6 feet in height and of great muscular development; he was greatly respected by all who knew him, and many acts of charity and benevolence are recorded of him, proving that he was as deserving of love for his kindness of heart, as of respect and admiration for his perseverance, great physical pow-

ers, and personal bravery.

ASTOLPHUS, called by the Germans Aistulf, king of the Lombards in northern Italy, succeeded his brother Rachis 749, and died in 756. After having seized the exarchate of Ravenna, he threatened Rome. Pope Stephen II. fled to France and demanded aid from king Pepin. As Astolphus refused to withdraw, Pepin crossed the Alps (754) with an army. Astolphus was vanquished and fled to Pavia, where he was besieged. He obtained peace on condition of restoring Ravenna and all his other conquests. On the withdrawal of Pepin, Astolphus burst forth again, laid siege to Rome, and ravaged all the surrounding country. The pope again supplicated Pepin, who crossed the Alps, and shut Astolphus up in Pavia. Astolphus was preparing for a new war, but fell from his horse while hunting, and died 8 days afterward with-

out leaving male heirs.

ASTON, Louise, a German authoress, the daughter of a Prussian clergyman, and celebrated for her zeal for the so-called emancipation of woman. She early displayed the energy of her character both by marrying, while extremely young, a gentleman of English descent, named Aston, who was at the head of a thriving industrial establishment of Magdeburg, and by resolutely divorcing herself from him, after she had ascertained that he had not any sympathy with her reformatory aspirations. Two years after the divorce, they were re-married, but again separated. Soon after this final separation from her husband, she made her appearance in the streets of Berlin in masculine costume and with a cigar in her mouth. This gave offence to the police, and she was requested to leave the city, which she did; but, in 1848, she came back. Mrs. Aston is not only what is commonly called a strong-minded woman, but is at the same time a person of considerable literary attainments. Her published works are numerous, consisting of novels, poems, and autobiographical sketches. She showed her benevolence by the self-sacrificing assistance which she gave, as nurse, to the sick soldiers in the Schleswig-Holstein lazaretto. In 1851 she returned to the subspace of demands in the self-sacrificing to the subspace of demands i

turned to the sphere of domestic life by marrying Dr. Meier of Bremen.

ASTOR, or HASARA, a river of central Asia. oining the Indus north of the Himalays moun-

Joining the indus north of the Himalays mountains. Its general course is north-west. A fort of the same name is situated on it.

ASTOR, John Jacon, a merchant of the city of New York, born in Germany, in the village of Waldorf, near Heidelberg, July 17, 1768, died in New York, March 29, 1848. He was the youngest of the 4 sons of a peasant, and his boyhood was passed in the healthful labors and simple customs of a farmer's life. He was trainnple customs of a farmer's life. He was trained from a child to rise early and to devote a part of his first waking hours to reading the part of his first waking hours to reading the Bible and prayer-book, practices which he cher-ished through life. His brothers seem to have shared his spirit of enterprise and energy, for 2 of them preceded him in passing beyond the Black forest and the Rhine, one of them to es-tablish himself as a maker of musical instruments. in London, and the other to settle in America. At the age of 16 he accepted an invitation from his brother in London to join him in his busims prother in London to join nim in his business, and with adventurous zeal he bade adieute his parents, walked to the coast of Holland, and embarked in a Dutch smack. After reaching his destination he showed the elements of his character and the value of his early discipline by rising invariably at 4 o'clock, and by performing his duties in the most exemplary manner. But he looked forward to even a wider field of enterprise than London. At the age of 20 years, possessing a manly person and age of 20 years, possessing a manly person and address, he became one of the pioneers in the great emigration to the West. In the year 1783, a few months after the recognition of the independence of the United States by Great Discuss, he sailed for Baltimore, taking with him a few hundred dollars' worth of musical instruments to dispose of on commission. The vessel has reached Chesapeake bay when a storm threatened shipwreck. Astor surprised the passenting upon deck arrayed in his best endence of the United States by Great Britain, gers by appearing upon deck arrayed in his best suit, but gave a satisfactory answer to their in-quiries. "If," said he, "I save my life it shall be in my best clothes; if I perish it is no mat-ter what becomes of them." On the voyage he ande acquaintance with a shrewd and communicative furrier, in accordance with whose suggestions he excha d his musical instruments gestions he excha in New York for , with which he nediately hastened ne dieposed of them w s ed again to cross ---- as himself syst London he su and made himsel fami of the article, and on retablished himself at New ward always resided. Cons brother doubtless assisted him m : ss for fortune, but his energy v voted to the fur trade, and in pursus ness he occasionally visited London, frequently Montreal and the posts in Canada. When the by Mr. Jay, in 1794, removed which had previously

of furs, he was p
by his extensive as maintance with the
and traders of the West and North, as
soon able to reap a double profit by as
furs to Europe and the East in his e
which brought back cargoes of foreign
to be disposed of in New York. His
became extended till it embraced as every quarter of the globe, yet so a his acquaintance with these markets wide was the grasp of his mind, the able to guide the action of his superce aptains by the most minute instru this time, while his commerce cove he always rose early and left his bus o'clock, P. M., and was accustomed to workmen occasionally that he could best of them in sorting and beating the beginning of the century he \$250,000, the result of only 16 years of life, and he now began to revolve schemes, not only of trade but of color not only of supplying with furs all the of the world, but of planting towns as ing civilization in the wilds of the west times. He obtained the return of tinent. He obtained the patronage of ernment for a plan of sending regule ships to the Pacific coast, especially to sian possessions on that coast, and, in a to many wealthy corporations, began effect the great though unsuccess which occupied so many years of h was his aim to organize the fur trai-lakes to the Pacific by establishing trading posts, making a central de mouth of the Columbia river, and t taining one of the Sandwich islands to supply the Chinese and India furs sent directly from the Paci prosecuting this gigantic scheme is he expected only outlay during the and unprofitable returns during the but after that a net annual result of 000,000. After hearing of one of most fatal disasters which befull the peditions that he sent to Astoria, he peditions that he sum was an evening to the theatre, showing to the theatre, showing the fur to the only source of his fortune. It to make investments in real estate and in the rapid growth of the that some po e of his rd at not l a whole o ry rotel in the ure and exerc welly at his o



New York, the fruit of a long-cherished and of much consult in the latter falls. (See "Life or 2"," by David lagues, in Freeman Huma "Lives of the consultant of the consultan growing coun been paid to which the library . · he , in **Record Tife on 2 r," by David mes, in Freeman Huma "Lives of Marshants," New York, 1858.)

LLEBARY. This institution owes mes to the liberality of John Jacob to bequeathed \$400,000 "for the estat of a public library in the city of L." By a provision of the will, the mat of the library was vested in 11 and effects of the institution; in them and effects of the institution; in them is nower to invest and expend the raphy has a well's coll having b designed w سم اہ اس history as fun as possions, as one class of words are daily becoming more and more required by the American public. In linguistics, particularly oriental, the Astor library is unsurpassed by any in this country. The natural sciences are any in this country. The natural sciences are also fully represented, comprising about 7,000 also rully represented, comprising about 7,000 volumes, many of them rare and costly. In Jan. 1856, the present building having become filled, and the necessity for more room obviously existing, Mr. William B. Astor, eldest son of the founder of the library, made a donation to the trustees of a piece of land immediately adjacent to the present building ambase. Il power to invest and expend the d to manage the affairs of the library. tratees were named by the testator, existed of the following gentlemen: gton Irving, William B. Astor, Daniel L. James G. King, Joseph G. Cogswell, to same to the king, Joseph C. Cogwen, seems Halleck, Henry Brevoort, jr., Saminaglas, and Samuel Ward, jr., ; also, the of the city of New York, and the chanf the state, in respect to their offices. By genet codicil, Charles Astor Bristed, his was also appointed a trustee. ately adjacent to the preent building, embrac-Mr. Astor also announced his intention on erecting a building similar to the present, and to be adapted to the same purposes. Since that date the building has rapidly advanced toward completion, and will probably be ready for the reception of books some time during the year 1858. The whole edifice, when coming an area 80 feet wide, and 120 feet deep.
Mr. Astor also announced his intention of a, was also appointed a trustee. A prof the will also designated, as the land
a to creek a suitable building for the a to creet a suitable building for the set the library, a lot situated upon the set the library, a lot situated upon the set Lafayette place, measuring 65 feet to by 120 deep. As early as the year in. Astor had purchased a number of a sided by Dr. Joseph G. Cogswell, with laste intention expressed in his will. 1848, the trustees of the library met first time, and in accordance with the size of Mr. Astor, appointed Mr. Cogsmittendent, a position which he still in the autumn of the same year, as a last of the same year. pleted, will be capable of containing 200,000 vol-umes. The catalogue of the Astor library, umes. The catalogue of the Astor library, which has been in progress ever since it was opened, has been a labor of difficulty, and requiring and receiving the most careful attention. It will comprise, when finished, 8 octavo volumes, numbering upward of 500 pages each, 4 volumes being devoted to an alphabetical increase of authors' names, and 4 to a carefully arranged catalogue of subjects. It will form, when completed, perhaps the most perfect printed libeeks to the amount of \$20,000.

an absence of 4 months, he collected completed, perhaps the most perfect printed li-brary catalogue ever published. The first vol-ume is already printed, and the others are rapopold I., emperor of Germany, and afterward travelled over a large part of Europe, living for a year or two in England, and remaining for a longer or shorter time at Lisbon and other places. His principal work is his Stabet Mater, the MS. of which is still preserved at Oxford, and of which a large portion is published in Latrobe's "Selection of Sacred Music." His opera of "Daphne" was also highly approved at the time, and his cantatas are elegant and graceful sompositions.

ful compositions.

ASTORIA, a town, once of great importance, in Oregon territory, near the mouth of Columbia river. It was for a long time the depot of the fur trade for all the country west of the Rocky mountains. It is now the principal place in Clatsop county, and is a port of entry. The difficulties in the entrance to the Columbia have, however, opposed a great impediment to the development of its property, while the more general settlement of the country has caused new towns to surpass it. Its population has been computed at about 800. Its name was given to it in honor of John Jacob Astor. Its early history is described by Washington Irving in his "Astoria." The town dates from about 1810.

ASTORINI, ELIA, an Italian theologian, born in 1651, died 1702, the founder of the academy of the Fisicritici at Sienna, and the author of various ecclesiastical writings, left Italy at a very early age, and passed some time at Zurich and Basel, in Swabia, and finally at the university of Marburg, in Germany, of which he was appointed vice-chancellor. In 1686 he graduated as physician at Groningen, but the religious excitement in the Netherlands induced him to rectam to Rome, where he received the appointment of general predicator at Pisa. He was also fur some time professor of mathematics at Sienna, and subsequently became the general commissioner of the monastery of Cosenza. He died in a little place called Terra Novia di Tarsia.

ASTORPILCO, an illegitimate son of Franci co Pizarro and Doña Angelina, daughter of Ata-huallpa, the last of the Incas of Peru. He died in 1583, but descendants of his name live to the own of present day in the P rcs. and when Humbo vaited upon in his vasa see d Incas of Peru by a ve . and. : name family of ... scion, on the : terms of Atahuallya. Hum Humou account of the destitute pu m on lustrious family, but while they are on of starvation they still firmly believe tree-ares baried under the rains on

ASTR.EA (Gr. corpor, a star), a generaliste animals of the polypi f. g. v. statch themselves to m. a b. often found collected together for hemispherical mass.

Seems of cors. The

masses is entirely covered with little est stellar form, each one of which is the stacle of a polype, and in the centre is less from which radiate its numerous testes arms. These cavities are either in the tact, or separated by intervening spaces, a feature is made the basis for dividing the into two sections, the first of which is sented by the common East India spec farces; and the other by the A. retuines West Indias.

West Indies.

ASTRAGAL. I. In Greek antiquit bone by which the foot is joined to it the knuckle-bone, or dib, of sheep and What in Eugland is called the game of was played with astragals by the wear children of Hellas. A painting by Als of Athena, found at Resina, represents men occupied with this game. One of having thrown the bones upward into has caught 3 of them on the back of he and let 2 fall. Five dibs were employ our own day. Cupid and Ganymede a resented playing at dibs on Mount Of II. These astragals were also used as disc Greeks, and marked 1 and 6 on one side 4 on the other. The 2 ends were left III. From the shape of the sheep-bone, a stragal was applied by the Greeks to a ing in architecture, characteristic of the order. This moulding preserved its me withstanding alterations in its structure destroyed its original resemblance to the gall bone.

ASTRAKHAN, or Astraguam. L. khanate of the Golden Horde of To braced Astrakhan proper, Sanatoff, Orea the Caucasus. It was conquered or and Russia by the czar Ivan Vasilewitch, in M ent government of Astrakhan, i ern Rus na extends over about 60 miles between the governments of Sams Orenbourg, the land of the Councils of the Cancasus, and the Caspian sea, tends along both sides of the rive which it is divided into 2 nearly of The land is mostly flat, a salt ste quent salt lakes and swamps, the nd unproductive, except on ivers, and, above all, of the 1; (nd a T H nacks ecoupy a se ad are expanised awa, printed by th awa, printed historia in



usval academy, a high school, or gymnasium, al district and grammar schools, a school d printing-office for the Calmuck language.

set 100 manufacturing establishments pro-e cashmere shawls, silk and cotton fabrics, dyes, powder, and salt. The salt-works

very extensive. Astrakhan is the great enproduce from the remoter regions, con-

principally of hides, sheepskins, and is brought there. It is, accordingly, of the most flourishing Russian commercial a. Its fisheries in the Volga and the Castalana and the

d of an 1

s are very extensive.

early all c Mohamm

005, as well to

partly of wood, and from 20,000 to 50,ms of Europe and Asia,

Thus there are mosques

and sanctuaries for the

It is now likewise

musian churches. There is

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of the principal navy depots for the Cassand steamers are constructed and armed for the Russian squadrons on all these waters. III. Astrakhan is also the name of a way fine kind of wool or fur, from the socalled aheep of Bokhara, a breed peculiar to
Bekhara, Peria, Syria, Palestine, and Egypt.

ASTRAL SPIRITS. The conception of
pairits of the stars has come to us from the
furnian fire-worship through Judaism and
Greek paganism. Every star is supposed to be
calculated by a spirit. The fancies connected
with the sphere and character of these spirits
wary much with the age and country of the
demonologist who treats of them. Paracelsus
gives every man and woman one such spirit
with whom the individual soul is in close conwhom the individual soul is in close conon, and who lives for a short time after the me being with whom it is in connection has They flourished under the Christian sys-The demonologists of the middle age repat these spirits sometimes as hanging between heaven, earth, and hell, and belonging to neither, sometimes as fallen angels, and sometimes as souls of the deceased. Free scope was always left to the imagination of those who It in these wonders. In the 15th century when demonology as an intellectual pursuit be-came perfected, the astrals were finally enrolled as wicked and evil-doing spirits. The French socialist. Fourier, in his cosmogonical specula-tions, also supposes the heavenly bodies to be endowed with intelligent individual souls of an

der superior to humanity.

ASTRINGENTS (Lat. astringo, ustringo, to con-A class of medtract, or bring together). A class of med-icines used either internally or externally, for contracting together the animal tissues and vessels in order to prevent profuse discharges, and also to coagulate the fluid matters. They act topically and in a less degree by sympathy upon other parts; but upon what principle they act is no better understood, than it is how cold applied to the body produces similar effects. Their action is not limited to the tissues of liv-

erior to humanity.

ing bodies, but is effective upon the dead fibre. It is the astringent property of tannin in oak and hemlock bark and other vegetable substances, which renders them adapted for the hardening of skins by the tanning process. great variety of vegetable matters contain tan-nin, and are consequently possessed of astrin-gent properties. The mineral acids and some salts of lead, silver, zinc, iron, and copper, as also carbonates of lime and magnesia, the former in the form of chalk, alum, and acetic acid, are all powerful astringents. This class of medicines applied topically to stop discharges, such as the flow of blood, are called styptics. This class of In the dyeing process the mordants used to fix the colors are astringents, which act by combining with the coloring matters, and forming with them insoluble compounds. Gall nuts and salts

ASTROGNOSY (Gr. across, a heavenly body, and yuwars, to know), the science which treats of the constellations, and the rank of the stars. The best means of gaining this knowledge is by a course on the celestial globe.

of alumina and acetates are common varieties

of astringents used for this purpose.

ASTROLABE, an old astronomical term, generally applied to a quadrant by which the aspects of the planets were measured, and the earliest measurement of the positions of the fixed stars made. ASTROLOGY, a system of rules for discov-

ering future events by studying the positions of the heavenly bodies, which was received for many centuries as a true and most important many centuries as a true and most important science, but has now lost all credit in civilized nations. It is still practised by a few votaries in western Asia. Astrology was divided into 8 kinds: judicial, by which the fate and acts of nations might be foreknown; and natural, by which the events of brute and inanimate by which the events of brute and inanimate nature—such as the changes of the weather, &c.,—might be predicted. The etymological &c.,—might be predicted. The etymological meaning of the word astrology is almost the same as that of astronomy; and there was no clear distinction made between the 2 branches until the time of Galileo. Previously, most students of the movements of the heavenly bodies had been more or less astrologers. bodies had been more or less astrologers. The invention of the telescope, and the establishment of the Copernican system, opened an attractive field for study, and laid the foundation of a true scientific knowledge, while it absorbed the attention of those who might otherwise have devoted themselves to the vain superstition of reading the future in the stars. Ancient civilization saw nothing absurd in the claims of astrology. Prophetic power was supposed to be common. The people imagined that indications of coming events were abundant on all sides of them; and it was presumed that these indications might be fully understood by those who devoted their lives to the study. Augurs and diviners were numerous and respectable; they were classed with physicians and priests; and their scientific rules were supposed to be precise and trustworthy. Omens

d by

u opinious prevailed, i the most abstruse or the most trustworthy means of foreknowing the Our information in regard to astrolofotore. gy, in ancient as well as in modern times, in by manufacture were as in mouth time, as a branch of valuable knowledge, it has been overlooked by historians, or has been passed by with a few words. There was some reason by with a few words. by with a few words. There was some reason for this mode of treatment, however, in the subject itself; for astrology, although many books had been written upon it—some of them very methodical and precise works—was yet treated so differently by different authors, that a description of their rules would necessarily have been tiresome. Astrology was much practised in imperial Rome. It was forbidden by Augustus, and the edict was republished by 4 or 5 of the later emperors, but was, apparently, not much regarded. Tiberius studied and practised astrology. The Saracens in Spain held than divination in great request and by their not much regarded. Tiberius studied and practised astrology. The Saracens in Spain held star-divination in great respect, and by their influence it was made popular through the rising Gothie nations of western Europe. In the middle of the 18th century, Alfonso the Wise, king of Castile and Leon, made himself not less famous by his astronomical tables than by his code of the Siste Partidas; and the astronomical tables were intended principally for astrological purposes. Thus astrology fostered astronomy as alchemy fostered chemistry. Astrology continued to increase in credit till the middle of the 16th century, was still practised at European courts at the end of the 17th, and had a few votaries till the end of the 18th, and had a few votaries till the end of the 18th, even in England. It was in high repute at the court of Catharine de' Medici; it was spoken of, by the great Kepler, as a true science; and Lilly, an English astrologer, was called before a committee of the house of commons, in the reign of Charles II., to give his opinion of future events. Lilly was the last of the famous astrologers; the 18th century brought clear acceptance ideas, and a cold skepticism, which would even doubt its own eyes when they wit-nessed phenomena inexplicable by clear rules. As stated before, the rules of the astrologers were different; but the general method of pro-cedure in finding the fate of any man or enterprise, was to draw a horoccope, repre the position of the stars and plan the whole heaven, or within one u the eastern horizon, at the til individual, or the inception or use Arbitrary significations were given w beavenly bodies, as they appeared a tions, the horsecope was interpreted, presence of Venus foretold love; Mars, w Jupiter, power; the Pleiades, storms at sen; &c. The system of a reputable astrologer in the 16th century required years for its mastery; and absurd as its fundamental principles now

(Gr. ADLRON body, and source, law), is the treats of the heavenly bodies, treats of the heavensy to each other and to the earth. The to each other and to the earth. The diameter at the equator, and 7,899 from pole. It rotates upon its shortest a with a perfectly uniform motion, one 56m. 4s., making what is called a sider At the same time, it revolves about with nearly uniform motion, occ revolution 365d. 5h. 48m. 47.8s. occup the same side to the sun, on an aver in 24h., an hour being simply the 24th the average solar day. The rotation earth upon its axis causes all the bodies to appear to rise in the east, the west, that is, to rotate about the the sky toward which the axis of th directed; in other words, the points would be directly overhead at the pole axis of the earth always points to nearly spot among the stars, showing that it nearly parallel to itself. But as it is pendicular to the path in which the is moving round the sun, this fixedness rection in the axis causes our globe to rection in the axis causes our globe to itself to the sun in its daily rotation, d at different seasons of the year, turnin poles alternately more nearly toward This causes the sun to appear to us to ri ther north in summer, further south in but his course from sunrise to sunset on day, is very nearly parallel to his co other day. Hence, when he rises fu he remains longer above the horizon down more nearly perpendicularly at effective causes of the warmth of sum stars inove over, from rising to settle what faster than the sun, that is to revolution of the earth about the sun of sun to appear to move round amou and his apparent path among the stars the ecliptic. The circle in the heave way between the poles, that ia, b points overhead at the earth's pet t estial equator. The equator increase at an angle (about 23° 27 ad the obliquity of the ex-reduces seasons exactly ador less, the whole or would need to be diff the sun apparently cre r, in March and Sept r, in March and that sincres, because at that o the night over the who then he arrives, in Ju-most northern and so stices, because the

Militus, so that we are about 8 millions name to him at our perihelion, in the I winter, than at our aphelionmace being about 95 millions of miles.

dismeter is about 111 times that of a bathat he is 1,400,000 times as large rth, though his weight is only 850,000 at of our planet. The moon bears of our planet. the same relation to the earth that the s to the sun. She moves about us in her average distance being 238,650 miles. Her that she can ever pass through the the earth. She produces eclipses of the produces eclipses the produces eclipses of the pro sw moon, because it is only then ndow can fall upon us. Her attraca the phenomenon of the tides, which The moon is held in her orbit ir weight, that is, the attraction of the the earth is held in its orbit simresight, the attraction of the sun. No resight force is known to influence a of these bodies. Bodies bearing a the sun similar to that of the earth planets; those holding a position has of the moon are called satellites. istance to the ancients were Mercury, and Jupiter, and Saturn. To these the save added Uranus, the asteroids, and Marcury's distance from the sun vaent parts of his orbit, from 29 to 44 f miles. He is occasionally seen, just in the west. The distance of Venus in is about 69 millions of miles. It is about 69 millions of miles. It is about 69 millions, in aphelion as of miles from the sun. The group of miles from the sun. of miles from the sun. The group roids lie scattered between 200 and of miles from the sun. Jupiter, seter is more than 11 times that of out 496 millions of miles from and is attended by 4 moons, whose the been of great value in determinates at sea, and have rendered to the memorable service of betraying the

velocity of light. These eclipses take place 16m. 27s. later when the

the opposite side of the sun from

eclipses

tions of Uranus, which indicated an exterior attraction, and its place and magnitude were calculated by Adams, of Cambridge, England, and by Leverrier, of Paris, before it had been seen. Its distance does not, however, agree with their calculations, as it is but 3,869 instead of 8,500 millions of miles from the succession of the second control of the This discrepancy does not arise from any error in their calculation, but from the fact that there were two places in which a planet might have been placed to produce the observed disturb-ances of Uranus. Leverrier and Adams calances of Uranus. Leverrier and Adams calculated one place correctly, but it so happened that the planet occupied the other spot. In addition to this train of planets, the sun is attended by a vast host of comets, which move about him at all distances, and in all directions. The comets and planets, however, all agree in these three particulars: they move in ellipses, with the sun in one focus; a line drawn from either of them to the sun would have an angular velocity at the sun, that is, alter its direction in exact proportion to the nearness of the body to the sun; and if the times of revolution body to the sun; and if the times of revolution of any two bodies round the sun be each mul-tiplied by itself, and the distances of the same bodies from the sun be each multiplied twice by itself, the resulting numbers in the first case will be in the same ratio to each other, as the resulting numbers in the last case. These three facts were discovered by Kepler, and are called Kepler's laws. From these it is easily shown, by higher mathematics, that the only force actby higher mathematics, that the only force acting on the heavenly bodies is an attraction toward the sun, proportioned in its intensity to the square of the distance from the sun. It to the square of the distance from the sun. It is further shown, by simple arithmetical calculations, that this force is the very same as that which causes an apple to fall to the ground. A stone falls 193 inches in a second, and the moon in going round the earth, at the distance of 238,650 miles, must bend from a straight line .053 of an inch every second. But the moon is 60 times as far from the earth's centre as the stone is, and 193 divided by 60 times 60 gives .058. This discovery of the identity of gives .053. This discovery of the identity of the force of gravity, or the weight of bodies on earth, with the cosmical force that carries the heavenly bodies in their orbits, is due to Sir Isaac Newton. The bodies already mentioned

although, ward. It n

the edge of this cluster, of course, appear to us crowded, and the more distant ones are beyond the reach of unassisted sight, their light blendthe reach of unassisted sight, their light blending into a whitish cloud, called the milky way. All the stars appear to be revolving about a central point in the constellation of the Pleiades. The change of apparent position in a heavenly body, caused by our moving our position, is called parallax. For the bodies of the solar system there is a daily parallax, arising from our rotation, about the axis of the earth. For the stars the daily parallax is insensible, and even the parallax caused by our moving around the sun, in the immense orbit of 191,around the sun, in the immense orbit of 191,-000,000 miles in diameter, is so small, that it has with difficulty been measured in a very few stars. Variable stars are those which go through regular periodical changes of brilliancy, from some unknown causes. There are several wellattested instances of the appearance of temporary stars, the permanent accession of new stars to the sky, and the permanent loss of stars which have become invisible. Double stars are simply those which appear to be one nearly behind another. Binary stars are those which are actually near each other and revolve about their common centre of gravity, as the earth and moon about theirs. Nebulse are arth and moon about theirs. clusters of stars, which require very high powers of a telescope to resolve into stars; that is, under low powers of a telescope they appear like portions of the milky way. It is usually like portions of the milky way. It is usually supposed that they are large clusters entirely distinct from that in which our solar system is distinct from that in which our solar system is placed, and, if so, at a distance which is incredibly great.—The foregoing remarks give a bird'seye view of the field of physical astronomy. With this must be combined spherical astronomy, which treats simply of the apparent motions of the heavenly bodies in the sky. The heavens appear like a hollow sphere; one-half, above the horizon, being alone visible at one time. The points over the earth's poles are called the poles of the heavens; they appear stationary, all other parts appear to rotate daily, causing the stars to rise and set. In addition to this, the bodies of the solar system appear to move among the st. on the interior of this sphere. called the . . each side or use ecu from the picture it was decorated by mers. The apparent pal planets (πλανητος, ν the zodiac, which is the sodiec, parta, called signs: Ari Cancer, Leo, Virgo, Libra, ссотры, Capricornus, Aquarius, and Pisces ets (compres, long-haired), hower these limits. The appa planets is exceedingly in much slower and even iinstance, we sweep by the u appears on the

e, his real mot sinces of spherio with accuracy, all the a the heavenly bodies, a ward. 10 to predict, with accuracy tions of all the heavenly tell the times of their rising and se other remarkable phenomena; swhen the shadow of one heave upon another; occultations, when one body passes behind another, so as to from our sight; and transits, when body passes between us and a lar body passes between us and a larg apparently creeping across its face. predictions of spherical astronomy, to f the heavenly bodies are given in cension and declination; declination tance north of the celestial equator, ascension being distance east of a me north and south line, drawn throng point of Aries, where the celiptic enguator. For a popular description of equator. For a popular description of of a heavenly body, use is made of the lations, which are very ancient, and a fanciful groups of stars, into which the event are supposed to be divided, tory of astronomy is more full and a tory of astronomy is more full and i than that of any other science. doubted that this science has I greatest means used in the intellects ment of our race, and that it is to the ability developed in the pursuit of a that we owe the origin of all other sciences. The movements of the bodies affect so intimately the walks. nation wi that there is scarcely a traditions do not prove that men be serve the sun, moon, and stars, as a began to live. It was, however, in G astronomy, as all other sciences, fin accentific form. The knowledge peathe Chaldeans, Egyptians, Indians, and seems to have been purely that of the Chaldeans had discovered that a the sun and moon return at nearly times of the year, after an interval of and had observed the principal phone the apparent rotation of the heavest length of the very at least to this a knowled length of the year at least to the length of the year, at least so far a 865j days. The knowledge of a sessed by the Chinese was but little They had determined the chinese seliptio. The knowledge assistant to the chinese was but little to the chinese scliptic. The knowledge ascribed authors to the Indian nations was pe rived from comparatively modern so astronomical knowledge of all natio periods has been magnified by tradi-stantial proofs of accurate astronomic edge are wanting in the case of every standard o naximenes com-ns, in his early re to his discir



competent to explain every motion which gity itself can explain. The Italian, Galuso, born 1564, by his invention of the telescope, and his discovery of the value of the party of the selection. ishment of the museum at Alexandria ny Philadelphus; an institution which for 9 centuries. The discoveries of andrian school, both in astronomy and born 1564, by his invention of the telescope, and his discovery of the value of the pendulum as a recorder of time, rendered also invaluable services to astronomy. But equally valuable and wonderful was the invention by Napier, or Neper, in 1614, of logarithms, without which astronomical calculations, of the delicacy and intricacy requisits in the modern state of the ry, are too numerous for us to give in by cannot, however, omit to mention sthenes, born 276 B. O., first measured f the earth, by that process which is resent day considered the best: the nent of an arc of the meridian. But intricacy requisite in the modern state of ther schools were not idle. Hippar-rn 140 B. C., verified, at his private and then himself pushed on until he science, would be absolutely impossible. Huy-ghens, born 1629, aided astronomy by his imghens, born 1629, aided astronomy by his improvement in telescopes, clocks, and chronometers. Cassini, born 1625, was an indefatigable and accurate observer. Newton, born 1642, deducing the law of gravity from Kepler's laws, and inventing the mathematical science of fluxions, earned the highest place among the list of theoretical astronomers. Flamsteed, more observations and discoveries I the ancient astronomers. Stimuthe sudden appearance of a new star avens, he formed a catalogue of 1,080 discovered the precession of the equiof fluxions, earned the highest place among such that of theoretical astronomers. Flamsteed, Halley, Bradley, in England, Lacsille, and the later Cassinis in France, pushed observations to greater degrees of accuracy. With Leibnitz's calculus, the same in spirit, but different in form, from Newton's fluxions, the inable results in pure mathematics, whole history of these 2 sciences to at day shows that while astronomy no progress without mathesis, mathesis advanced much more slowly but mathematicians commenced that series of brilmathematicians commenced that series of priliant investigations into the laws of attraction, which rendered Clairaut, born 1718, D'Alembert, born 1717, Euler, born 1707, Lagrange, born 1786, and Laplace, born 1749, so glorious. Among these, Euler and Lagrange were undoubtedly men of the highest genius, but Lablace by the multiplicity secures and value. alms given to it by the problems of Nearly 8 centuries after Hippar-Nearly 8 centuries after Hipparhismy appeared at Alexandria, and
high rank, not only by his own dismid inventions, but by his valuable
the labors of his predecessors. This
for a long time the great standard
inical knowledge, and is still extant
to Latin, and in Latin translated from
a. The Arabic name Almagest, cormin the Greek for "the greatest," is
the Greek for "the greatest," is
the Greek for "the death of Ptolmin the Carabians, I s, and Tarmin the Arabians, I s, and Tarplace, by the multiplicity, accuracy, and value of his labors, has gained an equal fame. Astronomy in the 19th century has continued to advance. Telescopic discoveries continue to be daily made, and living analysts are equal in their achievements to the illustrious men of the 18th century. Herschel's discovery of Uranus in 1781 was an accident, but that of Neptune in 1846 was the result of calculations by Lever-

rier, and must be ranked among the finest tri-

MAY col.

80 miles distant. In other words, modern as-tronomy undertakes to determine the distance of bodies which are from 80 to 40 miles off, by measuring a base line of 19 inches, and obby measuring a base line of 19 inches, and ob-serving the bearings of the objects taken at each end of the base. The determination of the fluidity of Saturn's ring deserves also to be ranked among the marvellous triumphs of genius. Saturn's ring, first seen by Galileo, was observed for two centuries and a quarter as a solid body. Mr. G. P. Bond, of Cambridge, Mass., having suggested that it was fluid, Prof. Benj. Peirce investigated anew the problem of the motions of a ring about a planet, and shownotions of a ring about a planet, and showed that a planet could not, of itself, sustain either a solid or a fluid ring, and that satellites could not sustain a solid ring under any cir-cumstances, nor a fluid ring except under cer-tain conditions, which are fulfilled in the case of Saturn.—Astronomy at the present day is sealously cultivated in nearly all the civilized states of the world. The observatories of Greenwich, Cambridge, and Oxford, England, and Edinburgh in Scotland, of Paris in France, of Region and Königsbarg in Present Al. of Berlin and Königsberg in Prussia, of Al-tona in Denmark, of Dorpat and Pultowa in Russia, of Cambridge, Mass., Washington, D. C., Cincinnati, Ohio, and Albany, N. Y., are among the most celebrated for the number and excellence of their observers and their instruments. In America, astronomy has almost begun its exist-ence since 1848, when public interest was awa-kened by the sudden appearance of a large comet, and men of wealth were induced to offer to men of science the means of purchasing instruments, and maintaining observers. Previous to that period, the chief contribution which our coun-trymen had made to this science was the translation by Dr. Bowditch of Laplace's Mécanique Coloste. Since that time, three valuable observatories have sprung into vigorous life, an as-tronomical journal has been established, whose ar-ticles have been of the highest character, and an American ephemeris, or nautical almanac, has been started, which is confessed by high Eng-lish authority to combine the excellences of all European works of the kind with peculiar advantages of its own. Our o Alvan Clark, has also produced nounced, by all comp the best in existence. ventive genius of 1 few years added gr methods of observi has been ingeniously instantaneous recor revolving cylinder in cambrage, formly, being connected with the of a pendulum clock by an elastic formly, being solution of a pendulum clock by an elastic mble of being twisted, which allows the continue to move during the dead the escapement; on a revolving disk in the escapement; on the escapement is the escapement of the escapement in the escapement is the escapement.

n ch ple, are also in us, Cincinnati, and one in Cambridge, whe curate measurements of small ares as with vastly more rapidity than by the and complicated heliometer, and with a curacy.—For a popular view of astrona of the numerous elementary text-books taken. For a rather more complete the numerous elementary text-books taken. For a rather more complete the numerous elementary text-books taken. For a rather more complete the numerous elementary text-books taken. For a rather more complete the numerous elementary text-books taken. For a rather more complete the numerous with such works as Laplace's Micanipus translated by Bowditch, Gazas's There Corporum Collectium, translated by Con O. H. Davia, U. S. N. (Boston, 1856). Di Astronomia, or Peirce's "Analytical lies and "Celestial Mechanica," now in the of publication. For the history of ast see Whewell's "History of the Indust ences," Grant's "History of Physical .my," Jahn's Gacchichte de Pastronomia. Information concerning the modern hastronomy, Zach's Monatliche Corva Lindenau's Zeitschrift, Schumacher's mieche Nachrichten, continued by Dr. I and Gould's (American) "Astronomia nal," must be consulted; also, the Franciscances des Tomps, which countinued in the American "Ephan Nautical Almanac."

ASTROS Pau Turvane Davin all

ASTROS, PAUL THERESE DAVID S.
ASTROS, PAUL THERESE DAVID S.
archbishop of Toulouse and Narbonne
Tourves, in the department of Van,
1772, died Sept. 29, 1851. In 1867,
ered a celebrated sermon on the rement of religion in France, in which I
was complimented. As an ultrament
utterer of the pope's bull of excounts
against Napoleon, he was arrested,
mained incarcerated in Vincennes un
The educational ordinances of 1888
his most determined opposition, as be
gerous concessions to the latituding
erals. He has left the world several
on the latituding

ABTRUC, JEAN, a French physics of Suave, in Has Languedoc, March and died May 5, 1766. He was code his day as an eradite physician and the action of innumerable volumes, a lent partisan of the exploded medical of the intro-mechanical school of ph. He received his degree of doctor of mathematical first, then at Toulouse, ward at Paris, He wrote controversion numerous diseases, and one in maintained that the postilence which other medical as

is the Sierra Penaranda, 11,000 feet to precipitous bluffs of Cape Ortegal this mountain range in one direction; ar it crosses the neighboring province; and in the gloomy rocks of Cape, opposing their eternal barrier to the p of the turbulent Atlantic, we find smainal point. The mass is composed ous rocks, marble, and hard grit sandad various mineral productions are sluding copper, mineral amber, cinnazine, lead, antimony, and jet. There eds of coal which are worked, and of sut 5,000 tons are sent into other parts. There is a hot spring at Las Caldas, do. There are several rivers, none of ble size, which, rising in the hills, flow the sea; the principal are the Sella, the Navia, and the Eo. Among the vegenucts are the oak, beech, and chestnut. Various plants useful in medicine—sarsaparilla, angelica, and dulcamara. found on the seashore. The agricultu-

stensively grown, and a corn called at, or escunda, to which the Asturians ally partial. Oranges and lemons are some parts of the province in the Wild animals, including bears, wolves, are plentiful in the mountains. The ts are hardy and industrious. They farmers, and the numerous wellvalleys spread all over the rugged surcir country, give an excellent opportu-

cir industry. Many of them travel to ts of Spain and take service, for which ly habits especially qualify them, and

tions are nuts of various kinds, apples,
Considerable quantities of cider are

rugh, indeed, for exportation to South The vine is cultivated, but not so y as in other parts of Spain. Indian Carlist struggles, the Asturians were generally faithful to the cause of Don Carlos. The principality is divided into 118 concejos, or communes, and 50 towns, all of which have their local government unimpaired. The population is about 500,000. The general government of the province is vested in the governor, intendant, and audiencia. The celebrated university of Oviedo is in this province.

oviedo is in this province.

ASTYAGES, the son of Cyaxares, became king of Media, according to Herodotus, on the death of his father-in-law Alyattes, in 595 B. C., and reigned 35 years. In consequence of a terrific dream, he married his daughter Mandane to a Persian noble named Cambyses, and in consequence of another dream equally alarming, he sent Harpagus, one of his courtiers, to compass the destruction of the child that was the offspring of that marriage. The infant was consigned to a shepherd to be exposed, but the shepherd, instead of fulfilling his commission, brought him up as his own son; that infant was Cyrus, the future founder of the empire of the Persians. Astyages having discovered in time that the boy still lived, caused a savage and shameful punishment to be inflicted on Harpagus, who

to manhood, to declare war against the tyrant. A battle ensued in which the Medes were defeated, and Astyages taken prisoner. Cyrus then ascended the throne, and the cruel Astyages remained a captive till his death.

ASYLUM, the Latin form of the Greek word agruhor, of doubtful derivation, a place of refuge, from which persons who fled to it could not be taken without sacrilege. The Jewish cities of refuge established by Moses and Joshua, are the earliest examples of the custom of which we possess historical evidence. These were 6 in number, 3 on each side of the

in revenge incited Cyrus, when he had grown

vengeance, if it permitted a violation of the right of sanctuary, and also of the rights and privileges of the particular god or goddess at whose shrine the criminal or debtor had taken refuge. Insolvent debtors and runaway slaves resorted to them in great numbers. As law became more powerful under the Roman government, these asylums came to be regarded as nuisances and impediments to the due administration of jus The Roman senate summoned a number of asylums to show by what warrant they claimed to possess the privilege. All those which could not show a perfect and continuous title, were abolished. At last an edict of the emperor Tiberius swept most of them away, both legal and pretended. With the barbarian incursions in the East and West, it was natural that the ne-cessity for asylums would arise again in consequence of the general retrogression of society. The new right of asylum fell naturally to the Christian churches. Under Constantine the Great, all Christian churches were asylums; the younger Theodosius extended the privilege to all courts, gardens, walks, and houses belonging to the church. The Franks in France, and Visigoths in Spain, permitted it. Many of the popes favored this right, as it conferred great power on the clergy, who were probably in a time of savage violence the best class to entrust with the trial of causes. All convents, and even bishops' houses, became asylums. Opposed to the right were the temporal lords, the rights to the right were the temporal forus, the rights of whose jurisdiction were curtailed by the asylums. Several popes, in particular Gregory XIV. and Benedict XIII., restricted the right as narrowly as possible. All highway robbers, narrowly as possible. All highway robbers, voluntary homicides, horse or sheep stealers, professional thieves, heretics under inquisition process, those who laid violent hands on nobles, process, those who had violent names on noores, forgers, false coiners, and duellists, were excluded from the privilege. In Germany, where the temporal power was strong, and the spiritual arm weak, the right of asylum was never very effective. Sometimes, however, the German barons would themselves set up the right of asylum in their castles. The German Kaiser accordance of the confusional explanation of the confusional explanations are the confusional explanations. sers never regarded the ecclesiastical asylum, and it was entirely swept away by the Protestant princes. In England, in the year 1457, the right was for the first time restrained by a bull of Pope Innocent VIII. In 1584, after the resuments had a server at 1584, after the resuments had a server at 1584. formation had commanced, persons accused of treason were debarred the right of anctuary, which word is more commonly used in English law than asylum, and hence the phrase, "to take sanctuary," is equivalent to take refuge. take sanctuary," is equivalent to take refuge.

In the time of Queen Elizabeth, the right of asylum was taken away from all criminals, but reserved to debtors, which, in a time when life-long imprisonment for debt was allowed, may well be considered a humane provision. In 1697, the right of asylum was at length taken away from insolvent debtors. In Scotland, to this day, Holyrood palace, as an ancient royal residence, continues to retain this right with re-spect to the persons of debtors. The bound-

aries of this place of refuge are liber debtors find lodgings in a short street, it ileged part of which is divided from t ileged part of which is divided from a privileged by a gutter running acrows is the only existing sanctuary in the Brist pire. In the United States of America, or ecclesiastical asylum has ever exist Macduff, thane of Fife, who dethroms both, and to his descendants, was given colm Kenmore, on the recovery of the of his ancestors, the privilege for any of his ancestors, the privilege for my the clan Macduff who committed unpreted homicide, to have his punishment r for a fine, payable to the injured famil could get safe to Macduff's cross, while in Fifeshire. Many similar priviles granted by charter in Scotland. The asylum endured longest in Italy, and v put an end to by the French occupation last century. The houses of the class graveyards, became asylums in Italy is of time. At the present day, the house cardinals at Rome have this privile cardinals at Rome have this privile criminals are generally surrendered to power. The public policy of this ri-long a subject of contention between i gy and the poor people on one side, kings, lay lords, middle classes, and civi-on the other. In a time of rule violes Lynch law, and the lex talionis, pres innocent man often got protection from passions, by running to the clergy for as society advanced, and the arm of became both strong and sure, the s only a means of sheltering criminals punishment, and dishonest debtors for creditors.-In England and America (has been given to charitable institution relief of orphans, the blind or dumb, ows of poor officers or clergymen, a

ASYMPTOTE, a line (straight or tangent to a curve, but having its post tact with the curve at an infinite If a weight were hung upon a cord, the which were fastened to pins at unequal
the weight would slide to a point a
lower pin. Let now the cord gradu the weight would show to a point lower pin. Let now the cord gra-to the weight, and be stretched to a length, the weight, sliding consta-the middle of the cord, would move and a vertical line midway betwee would be an asymptote to that asymptote always approaches meeting its curve; a beauti Leibnitz, of the progress of a st ASYNDETON, a rhetorical the omission of connecting part

ed discourse

ATABAPO, or Aracavi ela, rising in lat. 3° 10' N and flows westerly some 80 tion with the Tensi, whe ward for about the



K, a title of honor given to certain and viziers by the Seljook dynasty tans of the East. It means "the went." These dignitaries were the rarious provinces of the empire, in restablished a dynastic viceroyalty, all the rights of sovereignty except same of the nominal sovereign was he ritual of public prayer. The ata-ria and Irak, 1086-1183; of Azer-16-1235; of Fars, or Persia proper, and of Laristan, were the principal

MA, a province of Bolivia, lying on a directly south of south Peru. Its own, Atacama la Alta, is situated in long. 68° W., at the base of the is about 290 miles in length and adth. Cobija, the only seaport of within the bounds of the province. I thinly peopled, and although the part has some fertile valleva the result of the company. part has some fertile valleys, the rt of the province is a sterile, and art. The interior of the desert is enhabited, and the whole number of pon the coast does not exceed 200. erive a precarious support from fishng the winter the sea is often for a too stormy for them to trust them-it, and they then hunt any animals cold and snow may drive down from tains. The women tend flocks of infrequent meadows; and the men a often change their residences and the former going from creek to the latter from valley to valley. t has been for ages the burial-place boriginal Peruvians. Owing to the the climate and the soil, which re of sand and salt, bodies deposited sot decay, but are preserved like

Anhydrous sulphate of soda is in almost every part of the district, masses of solid iron have also d in different localities. There are icinal springs in the northern part. bon at one point found 2 streams hose temperatures were 70° and fold, silver, copper, salt, and alum, mong the mineral products of this The vicuna and the American os-

abundant. The volcano of Atacama, in height, is in lat. 21° 35′ S., long.

JALLPA, or ATABALIPA, Inca of Peru of the invasion of the Spaniards, died

The laws of Peru required that the principal wives of the Incas should be blood-relations, and that no children of other parentage should be legitimate. Atahuallpa's mother had been a prin-cess of Quito; nevertheless, at the request of his father, the heir to the throne, Huascar, consented to resign his rights in favor of Ata-huallpa, on condition only that he should render homage to him, and not make con-quests beyond his own kingdom. This liberal conduct was, however, infamously requited by Atahuallpa, who, having secretly got together a large army, attacked his brother Huascar in Cuzco, took him prisoner, loaded him with chains, and exterminated all his adherents, putting his family and immediate dependents to death in the most attocking tostures at which the in the most atrocious tortures, at which the wretched Huascar was compelled continually to be present. Such, at least, is the story told by Spanish annalists, whose testimony is, however, doubtful, seeing that the murder of Huascar their produced by the transport of the second that the second th ever, doubtful, seeing that the murder of Huss-car, their pseudo-ally, and the tyranny of Ata-huallpa, were among the causes of his own exe-cution. If his ingratitude and treachery were really true, a terrible retribution was at hand. Pizarro and his followers were now in Peru, and Atahuallpa hearing that his father had sent to them, opened negotiations with them himself. His proposals were received in a friendly man-ner by Pizarro, and an interview was arranged which Atahuallpa attended followed by a very large number of unarmed subjects. Father Vicente de Valverde explained to him, through an interpreter, the mysteries of religion, and that on account of their heathenism the pope had granted his kingdom to the Spaniards. Atahuallpa professed not to understand the tenor of this discourse, and could not at once resign his kingdom; whereupon a massacre of the assembled crowd was at once commenced by the Spanish soldiers, who seized Atahuallpa Spanish solders, who seized Atanualpa and threw him into prison. On the arrival of Almagro the cupidity of the adventurers was excited by the magnificent proposals that Atahuallpa made for his ransom, and with a desire of seizing the whole it was determined to put Atahuallpa to death. Some of the more merciful of the Spanish leaders were disinclined to this extremity, and proposed to send him to Europe for the emperor to decide But the counsels of the more unon his fate. on his late. But the counsels of the more un-scrupulous party prevailed, and he was tried by a military commission. During his imprisonment Atahuallpa's influence with his own people was undiminished, and his rancorous hate against Huascar being unslacked, his orders to put Huascar to death were obeyed. This was one of the charges against him on the court-martial by which he was tried and being found guilty by which he was tried, and being found guilty he was sentenced to be burned, a penalty commuted for strangulation by the garotte on his accepting baptism at the hands of the priests accompanying the invaders. (See Prescott's "Conquest of Peru," vol. i., p. 486.)
ATAIDE, Louis DE, Count d'Attouguia, a celebrated Portuguese statesman, born in the first half of the 16th century, died at Goa, March 9, 1581, was a lineal descendant of Joao Gonçalvez Zarco, the first explorer of the island of Madeira. In 1568 he was appointed viceroy of the Portuguese possessions in India, and was so successful in defeating the Ottoman armies which had invaded Chaul, that on his return to Lisbon his reception by the king and people of Portugal was a perfect ovation. On Oct. 16, 1877, he returned to the Indies to resume his vice-regal office, but the peace which had been concluded with the Ottoman king did not give him any further opportunity to add new victories to his laurels.

ATALANTA, a mythical personage, who may have been either a native of Bosotia or a native of Arcadia. The more authentic legend is that she was an Arcadian, and the daughter of Issus, who, having prayed to the gods for a son, was displeased at her birth, and, as a mark of his displeasure, exposed her on the Parthenian mount. Here she was nurtured by a she bear, and grew up to womanhood, still, however, retaining her virginity, and becoming the most swift-footed of mortals. She vanquished the Centaura, who sought to capture her, participated in the Calydonian boar-hunt, and engaged in the Pelian games. In course of time her father was reconciled to her, and restored her filial rights to her; but when he urged her to choose a husband, she insisted that every suitor who aspired to win her should first contend with her in running. If he vanquished her he was to receive her hand as the prize of victory; if vanquished, he was to be put to death. Milanion overcame her by practising the following artifice: as he ran he dropped 3 golden apples, the gift of Venus, one after the other, along the course, which so fascinated Atalanta that she could not refrain from delaying to pick them up, and while she thus delayed she was vanquished.

was vanquished.

ATALAYA, a town on Canary island, near Las Palmas. It is only remarkable for the curious manner in which the inhabitants live. All the houses are excavated in the sides of Mt. St Antoine, in which the people of the town live like bank-swallows. Pop. 2,000.

St Antoine, in which the people of the town live like bank-swallows. Pop. 2,000.

ATARAIPU, a lofty pyramidal rock in British Guiana, lat. 2° 55′ N., long. 58° 48′ W. It is situated near the Rupununy river, and has an altitude of 1800 feet above the savannah on which it is situated, and 1,300 feet above the sea level. "For 850 feet above its base," says Schomburgk, "it is heavily wooded, but above this point it towers up in a pyramidal form 550 feet more, a solid mass of naked granite." The meaning of the name is "devil's rock."

ATARUIPE, a cave on the declivity of a steep mountain near the mission of Atures in Guiana. In this cavern Humboldt found nearly 600 skeletons in good preservation, and arranged in good order upon a sort of baskets, made of the petioles of palms. All the skeletons were been and entire.

ATAUAI, or Kavai, also written Awari, one of the Sandwich island group is 8' N., long. 159° 20' W., 240 miles N. N. Hawaii. The form of the island is some oval, 40 miles in length and 24 in breadth widest part. The central portion is a life teau intersected with deep, fertile valley having elevated peaks rising from its surthe height of 7,000 feet above the level sea. From this central plateau it stop every side to the sea, and terminates in shore. Hanalei and Waimea are its proofts. The population in 1853 was 6,96

ports. The population in 1858 was 6,98
ATAULPHUS, the second king of th
goths, and successor to Alaric (410), to
his sister was given in marriage, and fou
the Cathie kingdom of Canl. He issued the Gothic kingdom of Gaul. He joined in Italy (409) with an army of Goths and and aided him in the siege of Rome. At death of his brother-in-law, Ataulphus m into Gaul, carrying with him Placidia, the of the appropriate that the street of the Honorius, a captive. of the emperor provinces of the empire were then in between Jovinus, who, at the head of a army of Burgundians, Alemanni, and Ale temporarily possessed himself of them, temporarily possessed number emperor Ataulphus offered to treat with emperor Ataulphus offered to treat with him the spoils. To the osition Jovinus was little inclined to li Gothic king, therefore, turned his atter Honorius. Offering him terms of pass the same time attacked and defeated and put him to death. Honorius nowed ed the return of his daughter, who had i poused to Constance. Instead of recidia, Ataulphus, by her own conseher. This was an era in the life of Instead of ret and in the social history of the Gothie hoof Gaul. But all the efforts of the be king to reconcile himself to Honoris no avail. Constance, smarting under th which had deprived him of alliance rial blood, haraseed the peace of the kingdom, until (414) the barbarians we pelled to evacuate the territory, burni deaux as they left. Ataulphus, who, it had already become obnoxious to the h his subjects, by his cruelties, or his a inated by one of his e form, was assa

in the year 415.

ATBARA, the principal eastern by the Nile. It rises in central Abyushili be Lasta mountains, a little to the ake Trana, one of the sources of like. Pursuing a mainly north-eastern toon, it forms the boundary between and Tigre, cuts the southern part of like for receiving many tributaries, eastern at lat. 17° 45′ N., and long 34° 5′ E. It he latter part of its course it traverses unds of Waldhuba and Walknyt. When ard visited it in 1814 he was structured to bus to canavan were an impressed with the



ed "After death comes paradise." On res of this river, near Goz Rajeb, this ushed traveller saw the ruins of some building of huge dimensions, but was if on exploring it by the assurance of sthat it was the haunt of banditti.

ara is mostly fordable, and abounds in and hippopotami. It is about 300

length. A, written also ATTU, ATOHU, AT NHAE, ASHEA, and ATSCHAE, one of tian isles, lying in N. lat. about 53°, 175°, about 10 miles wide and 70 long.

olcano in the eastern part, which connits a sulphureous discharge, and a hot its foot. There is a harbor at the east its foot.

Pop. about 60.

AFALAYA, a river and bayou of the i river in the state of Louisiana, conrith that river near the northern line of but receiving very little of its waters ex-me of flood. Its course is nearly south-the lake Chetimaches, through which and from which, in a greatly enlarged t discharges itself into Atchafalaya name signifies lost river, and it is sup-geographers to have formed the old se Red river, which probably at one ad its way to the gulf of Mexico as andent stream. The Teche and Cour-nite missingly think trains. Its re its principal tributaries. Its whole about 260 miles.—ATCHAFALAYA BAY, the southern coast of Louisiana indentelta of the Mississippi, and receiving rs of Atchafalaya bayou and Lake hes

ISON, a county of Missouri, forming caxtremity of the state, lying along ank of the Missouri river. It is drainank of the Missouri river. It is drain-Nodaway, Tarkeo, and Nishnabatona d contains 695 square miles, and a a of 1,678, only 30 of whom are Indian corn, wheat, oats, cattle, and the staples. In 1850 this county 149,387 bushels of corn, 15,577 of ad 9,733 of oats. There were 175 puading public schools. The live stock ed at \$77,284.

ed at \$77,284.
ISON, DAVID R., an American sensange. 11, 1807, at Frogtown, Fayette Ly. The son of a wealthy farmer, he cated for the bar, and emigrated to Clay county, Missouri, in April, 1830, engaged in the practice of his pro-He was a bachelor, a man of convivial babits and became very nonular with l habits, and became very popular with r settlers in that region. He was o the legislature from Clay county in 4, and again in 1838. In Feb. 1841, ppointed judge of the circuit court for wanty. Upon the death of Mr. Linn, mator, in the autumn of 1841, Mr. was appointed to the vacancy by molds. It was thought by many that

nintment was merited, and had been aded by Col. Benton and other au-

others it was said that the governor was himself ambitious of the senatorship, and had selected Mr. Atchison as a person who could easily be beaten at the next election. The death of Gov. Reynolds, however, occurred before the meeting of the legislature, and Mr. Atchison was elected without serious opposition. He was reelected for 2 full terms, the last of which expired March 4, 1855. When he entered the senate he acted cordially with Col. Benton, and as late as 1848 claimed that he was the first to frame an act organizing the territory of Oregon with a clause prohibiting slavery. The next year he attached himself to the party of Mr. Calhoun, was elected president pro tem. of the senate, was received into favor and raised into prominence by his new party, and became the antagonist of Col. Benton in his own state. The union of a few democrats under the lead of Mr. Atchison, with the whigs, defeated Col. Benton in 1850. Mr. Atchison became especially prominent in the legislation for the organization of the territories of Kansas and Nebraska. The first bill which was introduced neoraska. The first oil which was introduced into congress to this end was in the winter of 1851-'52, and had no reference to the subject of slavery. This bill Mr. Atchison advocated by a speech in the senate, but subsequently on his return to Missouri he became an opponent of the bill, and declared in a public speech that he would never vote for the measure unless the Missouri companies were reproduct. Missouri compromise were repealed. The pub lic sentiment at that time was such that declaration was denounced by the papers of his own party; but within a month from the opening of the next congress, Mr. Douglas, from the committee on territories, reported a bill to organize these territories, containing a clause which, by strong implication, repealed the Missouri compromise, although the report accompanying the bill expressly deprecated any such intent. This clause was assailed by Messrs. Chase, Sumner, and others, in a printed circular, which led to a vehement and personal debate. There was, finally, substituted another clause which repealed the Missouri compromise outright, and in this shape the bill was passed. Subsequently Mr. Atchison affirmed, in a speech made in the territory of Kansas, that the clause repealing the souri compromise originated with him; Missouri compromise originated with him; that he had proposed it to Mr. Douglas, who at first declined to insert it in his bill, but after a period of hesitation consented to do so. This account tallies with public facts, and though it was published in the newspapers was not denied by Mr. Douglas. Mr. Atchison, since he lost his seat in the senate, has been a leader and chief adviser of the slavery party in the recent troubles in Kansas. He now resides on a fine farm in Clinton county. Missouri.

ATCHUJEFF, or ATCHURFF, an island at the mouth of Tchernoi-Protok, the black current into the Azof sea, opposite Yenikale. It is a spot occupied principally by fishermen for the preparation of caviare.

ATE, a Greek deity, daughter of Eris, or Zeus. She plays very different parts in the tragic and epic poets. In the former she is the punisher of those who perpetrate crime, in the latter she is the instigator of gods and men to rash and pernicious deeds, which superinduce suffering and sorrow. In this character she persuaded Zeus to take an oath, which afterward enabled Hera to transfer to Eurystheus the power that had been intended for Hercules. When Zeus perceived what he had done, he cast Ate from Olympus, and excluded her forever from the society of the gods. Ate figures most prominently in the poems of Homer and the travedies of Æchylus.

the tragedies of Æschylus,

ATELLANÆ FABULÆ, Atellane plays, a species of farce or comedy, so called from Atella, a town of the Oscans in Campania, southern Italy. From this fact, and also from their being played in the Oscan tongue, they were sometimes called ludi Osci. No entire play has come down to us. They were introduced into Rome, and were received with as much favor there as the negro melodies have been in New York. The Oscan dialect was easily intelligible to the educated classes of Rome, and the Atellana were allowed to be performed by Roman citizens without degradation and loss of civil rights. The humor of the Oscan plays, like the negro soirée, to which we have compared them, consisted in the burlesque pictures of provincial manners, provincial oddities, and provincial dialects, which they presented. The Harlequin, the Pulcinello, the Brighella, and the Pantaloon of the modern stage, are lineal descendants of the dramatis persona of the Atellana fabula. Lady Morgan, in her work on Italy, gives the theory of modern scholars on this point: "The Pulcinello of Italy is not like the Polichinel of Paris, or the Punch of England; but a particular character of low comedy peculiar to Naples as Pantalone is of Venice, and Il Dottore of Bologna. Their name of Maschere comes from their wearing masks on the upper part of their faces. They are the remains of the Greek and Latin theatres, and are devoted to the depicting of natres, and are devoted to the depicting of natres, and are devoted to the depicting of nacres, and are devoted to the popular faces are performed by dolla, and the dialogue spoken in the sateis of the country, and full of satirical local allusions, is carried on by persons concealed. Being a fashionable entertainment, the Atellana were not so coarse as the Mimes, which latter were the popular favorites. The Oscan, or Opican language was spread over all the south of Italy; some remains of it have come down to us. Here is a specimen which is taken from an inscription found at Bantia in Lucania,

In over pis ione fortis meddis moltaum horest. Et si quis sum fortis magistratus multin velet. Amport mistreis anteis cituse moline melinem lielind. Una cum magistris altis erarii multin minitoro lielin. Hereat is supposed to be connected with, oea, meddie with µebox, ampert with question and the Atellana were written in verse, c iambic, with many trisyllabic feet. Lucius the dictator, and a Campanian by birth, plays of this sort. The names of some Atellanes of Quintus Novius have come to us, as "Macchus in Exile," "The Pout "The Vintagers," "The Deaf Man," "The ty Man." Lucius Pomponius, who lived 90 B. C., wrote Macchus Miles, the Parad memnon, the Bacco Adoptatus, the Azi (Sacristan), &c. The Latin, and som the Greek languages, in the times of the perors, crept into the Atellana, particul one part called the Centicum.

perors, crept into the Atellana, partical one part called the Centicum.

A TEMPO (Ital. in time), a musical ternifying the return to the original movafter it has been interrupted by a recital by some other change of time.—A oursto (Ital. in equal time), designates as scientific movement, in opposition to one impassioned character.

ATFIEH, a province of middle Egy tending nearly one hundred miles also eastern bank of the Nile. Its capital, same name, is situated near the site of t cient Aphroditopolis, or city of Venua, 4 S. S. E. from Cairo. It is the only place t to be called a town in the whole part Population about 4,000.

ATH, or ÆTH, a strongly fortified city province of Hainault, in Belgium, on the Dender, in long. 3° 46′ E., lat. 50° 42′ H., lation, in 1850, 8,487. It has a handsome hall, an arsenal with seven bomb-proof zines, a college, orphan asylum, &c. manufactures of linen, weollen, and cotheries, of hats and gloves, bleaching and establishments, breweries, &c. It is the a considerable trade.

a considerable trade.

ATHA BEN HAKIM, a Moslem impossible of in the 8th century, was born at and was by trade a fuller. He was also "Mocanna" or the "Veiled One," for wearing an impenetrable mask, according own account, to cover his face from the man, who could not be to the face from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed that it was to hide from the ever, believed to hid had a first of the every hide follower. He had been the every hide follower. Transox was there he introduced the every had been the every hide follower.

. He therefore, according to some, ap-torch to his castle and threw himself iames, followed by many of his discihers state that he destroyed himself rho were with him by poison; and ers that he prepared a cauldron of cor-d, into which he precipitated himself, pe that his complete destruction would reign the helief that he had been reusing the belief that he had been re-

y divine agency. It is said that his is frustrated by a lock of his hair escap-

Mocanna is the hero of Moore's The Veiled Prophet of Khorassan. MELIK, ALA-ED-DEEN, surnamed ALa Persian historian and statesman, it 1227, in the district of Jowain, near of Nishapoor, died at Bagdad, about a enjoyed the favor of the Mogul enjoyed the favor of R Persia, and was for many years gov-Bagdad. It is, however, only as a set he deserves especial notice. His work is on the history of the Moguls, ntitled Jehan Kuchai. It has alued by oriental historians, and was aragius, Mirkond, and others, consid-shief authority on the subject of which

BASCA, or ATHAPESCOW, a lake and British North America. The former les in length from east to west, and average breadth of 20 miles, lat. 59° from 106° to 112° W. The Athabasca

in the Rocky mountains and flows lake at its south-western extremity. discharges northward by Slave river, mmunicates through Slave lake and ariver with the Polar sea, and through ı and Deer lakes and Churchill river son's bay. LIAH, the daughter of Ahab, that king" of Israel. She was sought by hat, king of Judah, through motives in marriage for his son Jehoram, heir lean sceptre. This marriage appears dæan sceptre. men the occasion of the introduction y into Judah, and of an interruption naty of the Judean kings. Jehoram a the ways of Ahab. At his death, his son, reigned one year, during which madederacy had been formed between I Israel against Syria. The conspiracy a captain of the Israelitish army, who posted at Ramoth-Gilead, resulted in m upon the throne of Israel, and de-Ahaziah, the king of Judah, with 42 inces of the tribe. Athaliah, seeing atage that lay before her, caused the ie royal line, as she supposed, to be mounted the throne of Judah herself. a reign of six years, it turns out that ssacre the priests had seized an infant yal house, Joash, and had secretly im up in the temple. In the seventh high-priest brought forth this child, m to be anointed as king, and ordered and condign punishment of Athaliah

by the armed Levites, and thus ended the interpolation of Israel in the Judsean line. discovery of Joash is the subject of a tragedy by Racine, written at the request of M'dme de Maintenon.

ATHAMAS, a son of Æolus, married Ne-phele by order of Juno; but he was secretly in love with Ino, the daughter of Cadmus, whom he had two sons, Learchus and Melicertes. Nephele, on discovering that Ino occupied a higher place in the affections of Athamas than herself, immediately vanished from the earth. Disasters innumerable now descended on Athamas and his offspring. Ino hating Phrixus and Helle, his children by Nephele, endeavored to destroy them, by first causing a famine, and then bribing the messengers who had been sent to consult the oracle about it, to declare that, if they would avent the calculations are sent to consult the calculations of the sent to consult the calculations of the sent the calculations. they would avert the calamity, they must sacrifice the sons of her rival. Nephele, however, rescued Phrixus and Helle from the fate which impended over them, and transported them to Colchis, on the back of the ram with the golden deece. Juno next came forward to punish the infidelity of Athamas, and afflicted him with madness. While in this condition, he killed Learchus, one of Ino's sons, and his mother, in despair, cast herself into the sea with her other son, Melicertes. As the murderer of his son, Athamas had to flee from Bosotia, and having consulted an oracle as to where he should settle he was commanded to remain wherever he should he was commanded to remain wherever he should be hospitably received by savage beasts. He travelled long in search of such a land and such entertainers, but arriving at length to a place where wolves were devouring sheep, they fied away at his approach, and left their slaughtered prey at his disposal. Athamas at once perceiving that this was the country marked out for him by the oracle, settled there, and called his new territory Athamania, after himself.

ATHANAGILD, 14th king of the Visigoths in Spain, succeeded Agila in 554, and died 566. Being threatened by Agila, he applied for aid

in Spain, succeeded Agila in 534, and died 566. Being threatened by Agila, he applied for aid to Justinian, emperor of the East, to whom he offered several cities in Spain. Justinian sent the troops, and Athanagild defeated his adversary, who was obliged to retire to Merida. Athanagild was reestablished at Toledo which

he made his capital.

ATHANARIO, king of the Visigoths Thrace about the middle of the 4th century, died at Constantinople, Jan. 25, 381. The emperor Valens made war upon him and compelled him to sue for peace. Athanaric would not come upon the Roman territory to sign the treaty, while Valens thought it beneath his dignity to visit the barbarian at home. Accordingly a bridge of boats was constructed across the Danube, and the two potentates met in the middle. In 380 he was compelled to flee to Constantinople, in consequence of an insurrection. Theo-dosius received him hospitably, and gave him a small pension until his death.
ATHANASIAN CREED, a symbol chiefly

composed of precise theological definitions of

the doctrines of the Trinity and Incarnation. The first notices of it are from the 7th century, and do not mention the author. It made its apsarance first in France, in the Latin language, became generally known throughout the We and was adopted last of all in the East. The state of t Greek writers immediately succeeding St. Athanasius make no mention of it. In the MS. editions of his works it is usually not found at all, or, if it is, with the remark "commonly" or "incorrectly" ascribed to St. Athanasius. Although not at first ascribed to him by any wri ter, it was subsequently attributed to him by all ecclesiastical writers. Durandus (1287) states that it was composed by St. Athanasius, at Treves, during his exile in the West, and Mayer, a modern German critic, thinks this account not improbable. Modern critics generally suppose that it was drawn up by some able theologian, as a summary of the doctrine of St. Athanasius, from which circumstance it obtained the name of Athanasian creed, and in process of time was attributed to the great Alexandrian doctor. It has been attributed, on conjectural grounds, to Hilarius and Venantius Fortunatus, French bishops, to Vincent of Lerins, and to Virgilius, bishop of Tapsus, in Africa (484). This creed is an authoritative formulary of faith in the Catholic and Greek churches. Its authority does not the presumption that it was compound rest on the presumption that it was composed by St. Athanasius, but on its general acceptance as a correct enunciation of Cathelic faith. In the Roman Catholic church it is recited at the office of Prime on Sundaya, when the office is Dominical. In the church of England it is ac-cepted as of equal authority with the Apostles' cepted as of equal authority with the Apostres and Nicene creeds, and ordered to be recited on certain festivals at the morning prayer. In the 89 articles of the Protestant Episcopal church of the United States all mention of it is omitted, and the creed itself has no place in the prayer-

ATHANASIUS, SAINT, patriarch of Alexandria and doctor of the eastern church. He was born at Alexandria about the year 296, of Christian parents, educated under the direction of the learned Alexander, afterward bishop of the city, not only in the elegant branches of secular learning, but more thoroughly in the studies which were preliminary to the Christian ministry, particularly the interpretation of Scripture and the canon law. His preparation was completed by a sejourn of some months or years in the desert of Egypt, where he had the privilege of serving as attendant upon the famous St. Anthony, and could learn by experience the nature and effect of monastic austerities. At the age of 23 he received deacon's orders and, in the discharge of his office, so signalized himself as a foe to every kind of heresy, that he was chosen by the bishop Alexander to accompany him to the council at Nice (A. D. 325), where the doctrines of Arius were to be dealt with. To the perseverance, subtlety, learning, and elequence of Athanasius in that council, his adroitness in the management of men and in the statement of ar-

guments, is principally to be attributed a mentous result, which declared by a maj voices that Arianism was heresy. His on this great occasion, not less request of the bishop Alexander, sees election as bishop to the principal see of The bishops merely came together to fixed and inviolable popular choice, where the perial opposition could not prevent. At assumed the episcopal chair about the E the year 826, and retained the right and until the year 878—more than 46 year his long episcopal life was far from bein ful. It was broken by very numerous tunes and disasters. His uncompromi thodoxy subjected him to the most bitte and the most savage persecution. Arius, which he never ceased to denous ed the ruin of the man who had disgre silenced their leader. A series of beret perors drove into repeated banishmen trepid prelate, who was as much an e cusations of many kinds, some of them more of them false, were multiplied agaille was charged with tyranny, with a with the rape of a virgin and the mur bishop, with the practice of magic a fraud upon the revenues, with the and cruel avarice; while proofs were a his bold defiance of the civil power, at zealous intolerance. Even the Rom on one occasion turned against him scribed his condemnation. Two year time were passed in exile at Treves. long, at another time, was he absent k. The Pagan Julian, from whos he hoped to find protection, would not the "wretch" who had dared to bapti women of noble birth; and Athana only by stratagem from the emiss monarch sent to murder him. of Valens the aged bishop was driven fifth time from Alexandria, and hid his 4 months in his father's tomb. At the 76 he was at last allowed to close in g troubled career. His festival is kept i Greek and Latin churches on May Greek and Latin churches on May 2, Greek church also on Jan. 18. The ansaius has historical importance as its connection with the Arian contribe establishment and defence of creed. With the exception of his against the Pagans' and his treatist Incarnation," the works of his novid writings of the Alexandrian patrias direct bearing upon the great quest puts. Some of them discuss the the us and refute his resconless: us and refute his ressonings; against the artifices and violens The doctrine of the identity of C is contrasted with the doctrine hip, as well in visible fruits a scriptural soundness. In one sius give a .



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th his bishops not to be led captive by us persuasions of the foes of the faith. a learned criticism upon the words of he gospel of John; there it is an apol-s flight in persecution. And whether ts the churches whom to receive, or he monks concerning their duty, or he suffering in time of their trial, or imself against the slanders of foes, or he word of the Holy Writ, his highest morbing thought and purpose are fixed central doctrine that Christ is God, the Son and the Father are equal in eternity, and in essence. The style sius, if less florid than those of the at fathers of the eastern church, has of strength, clearness, conciseness of and exact logical order. It is praised Erasmus, the most fastidious of critics, style of Chrysostom and Gregory, sters of sacred eloquence. What it sters of sacred eloquence. What it inished grace it makes up in nervous zere are fewer digressions than in most rly controversial writings, and fewer fancy than a successor of Clement and ight naturally indulge. The character ight naturally indulge. The character in may be discovered in his works. ending, confident even to dogmatism, ainst what he believed to be heresy, of the promises and professions of all not friends of the truth, he was yet in his address, mild in his general inkind to the poor, sincerely pious, just isions, inspiring reverence for his charin those who dreaded his authority.

nce was never wearied. His confithe triumph of truth never forsook
is first, if not greatest, in the list of om the church counts as her noblest s; and the defeat of Arianism would sting monument without that later ich, expounding the doctrine which ed, improperly bears his name. controversics and sufferings is y told in the narratives of the historiates, Sozomen, and Theodoret. The on of his works is the Paris edition of 3 vols. folio.

ISM (Gr. a privative, and 3cos, God, rod), the denial of belief in God, the Being. Atheism may be either practiculative. Practical atheists are those as if there were no God; speculative re those who deny that God exists, take to explain the phenomena of the without admitting the idea of God. If speculative atheism has been quesmany grave philosophers. God, they a the first principle not only in being, suce, the immediate light and object or the intellect, and affirmed in every elligence. In other words, God by liste presence creates and constitutes y of reason, and is its primary and object, so that he affirms, as the inobject and light of reason, his own

existence in every one of our thoughts or intellectual acts. According to this view, God, as the intelligible, is intuitively evident, and it is impossible for any one to think without in reality thinking God. But as no one can deny God without thinking, it is therefore impossible to deny his existence. The very act of denial, if analyzed, would be found to contain the affirmation of his existence. According to this doctrine, real speculative atheism is an impossibility.—But, if God is affirmed as the ideal element in every thought, and it is impossible to think without thinking that which is God, it is conceded that he is so thought or affirmed only as the intelligible, and not distinctly and reflectively, or with reflex consciousness, as God. He is really thought, he enters into every thought as its ideal or objective element, without which no thought is possible. But it is not intuitively evident to reason, that this ideal element of thought is God; this is made manifest only by reflection, or reflective reasoning. In reflecting on the intuitive data, and attempt ing to render an account to oneself of the ideal and objective element of thought, it is very possible to misapprehend it, and to misinterpret and to misapply it. It is even not difficult to mistake its real character, and to fail to perceive the fact that it really is God affirming himself as the immediate light and object of our intellect. Hence, though it is impossible for think and not to think God, it is possible for men to overlook the fact, that what they think men to overlook the fact, that what they think in the ideal element of thought is God, and therefore to regard themselves as atheists. In this sense there may be, and have been in all historical ages, speculative atheists, at some epochs in large numbers.—Yet as the ideal element of thought is an inseparable and indestructible element; and as that element really is the affirmation of his own existence by God himself, speculative atheism is necessarily misapprehension, or misrepresentation of that ele-ment, rather than its absolute denial. It lies not in the denial of the ideal or necessary element of thought, for that no man can do; but in confounding it with something else, or in identifying it with secondary causes, created objects, or forces. In the history of specula-tive atheism we find this has been done in 3 different ways, giving us 4 distinct classes of speculative atheists: I. Material atheists. These substitute for God the material forces of nature, or identify with them the being or reality affirmed in the ideal element of thought. They cannot free themselves from the conception of the ideal, of being power, cause, necessity, &c., but instead of integrating them in a sity, &c., but instead of integrating them in a supreme, eternal, immutable, and necessary being, origin, and end of all, they identify them with the material forces of the universe, and ascribe to these forces most of the functions which theists ascribe to God. In this class may be placed the Greek philosophers of the Ionian school, Lucretius, Hobbes, the French atheists of the last century, Comte, and several modern

Germans, not represented by any school. II. Ideal atheists. These substitute for God the laws and principles of the universe. They suppose the universe operates by virtue of certain universal laws or principles inherent in it, and indistinguishable from it, constituting it a sort of self-existing and self-developing organism, in which they approach the old philosophers, who held God to be the soul of the world—anima mundi. In this class we may include Giordano Bruno, Vanini, Schelling, and, as to their tendencies, large numbers of distinguished modern naturalists. They admit an intelligible They admit an intelligible or supersensible universe, which they regard as the real universe, and thus look upon the sensible universe, not as real, but as simply phenomenal. Schelling seems in his later statements to have approached theism, and perhaps some others in the list were not personally unbelievers in God, but they belong nevertheless to the class of ideal atheists, inasmuch as in their systems they at-tempt to explain the existence, the facts, and the phenomena of the universe, without the creative act or intervention of a supra-mundane God, or any power distinguishable from the universe itself. III. Egoistical atheists. These confound the ideal or necessary element of thought, which is objective, that which affirms itself to us in the fact of thought, with the subjective element, or consciousness; or, in their own language, assert the absolute identity of subject and object in thought. To this class belong Fichte, in his earlier teachings, Hegel, as explained by a portion of his disciples, and in germ even Immanuel Kant himself. These start with the assumption that thought begins and ends with the subject thinking, and demands no really objective existence as its necessary condition. In other istence as its necessary condition. In other words, the subject does not need, in order to think, an object distinct from itself; and in the fact of thought there is no object affirming itself, but simply the subject producing or projecting its object from itself. The subject suffices for itself, is independent, absolute, and creates its own world. The universe, with all its principles, laws, phenomena, truth, beauty, goodness, are all projected from the subject, the ego, and depend on it, and are voluntarily or istence as its necessary condition. In other groomess, are an projected from the subject, the ego, and depend on it, and are voluntarily or involuntarily determined by its lawa,—are, in fact, only the phenomena, modes, affections, or productions of the thinking subject. They confound, therefore, the ideal with the subjective, the property of the subjective of the subjective of the property of the subjective of the the necessary with the contingent, being with existence, and assert the absolute identity of the object with the subject. IV. Eclectic atherets. These attempt to explain the phenomena. nomena of life and the universe, not by any one of the methods mentioned, taken as an exone of the methods mentioned, taken as an exclusive method, but by a combination of two or all of them.—Atheism, whatever its method, accepts in some form the ideal element of thought, and ascribes to the material forces of nature, to universal laws and principles, to absolute egoism, or their combination, the canality, the independent being, the adaptation of

means to ends, the arrangement of relation to the other, and the production monies, which theism ascribes to the Being, or supra-mundane God. It may the ideal element of thought, or mental conceptions which enter in in God, of which it would seem mind cannot divest itself, but apputhe universe itself, mistaking, in the theist, second causes for the primarivative or created being for the Speculative atheism may be brieff the denial of the Supreme Being as and practical atheism as the denial the last or final cause; consequent as theists allege, of the moral law ligation, or duty; for if there is no empinis propter quemman exists, can be for him no moral law, no a God is not that end, then he can horsel obligation to obey God, or his will, or his law.

ATHELING (Sax. athel and I youth), a title borne by several me royal house in the Saxon period of tory. It was long regarded as a was first proved by the researches be only a title of honor. Thus Sek that the earlier Latin chroniclers wi of Edgar Atheling as Edgarus Cl being a word of Greek origin, s renowned or illustrious. The t limited to the heir-presumptive to and at first belonged probably to of the blood of Odin, the ancestor sovereigns. See Edgar Athering

limited to the heir-presumptive to and at first belonged probably to of the blood of Odin, the ancestor sovereigns. See EDGAR ATHELINE ATHELINEY, ISLE OF, a tractacres of land, in the county of England, 7 miles S. E. of Bridgew time of Alfred the Great, it was the junction of the Tone and I Alfred concealed himself among during the Danish invasion, as founded an abbey there, about 88 ATHELSTAN, king of England 940, and was the first who called hi

940, and was the first who called his the English; Edward the Elder, ha Alfred his grandfather, having selves kings of the West Saxons, a ons, while Egbert and the kings and Alfred never assumed a lass kings of the West Saxons. Ather illegitimate son of Edward the Eldonly legitimate son of Edward will died a few days after the death of Athelstan, according to the custom which prevailed among the Saxons red by the Witenagumote to herothers who were under aga, crowned king of the Anglo-Saxons on the Thames. He did not, at I hold sway over the whole even after the West Welsh prime in a very series of the Mest Welsh prime.



Pendragon of Wales. When Sigtric, lorthumbria, died, Athelstan seized territory also. The Irish, the Scots, Welsh, saw with terror or dislike the Athe power of the South Saxon king. kingdom of Northumbria had been ettled by Danes, and as Anlaff was of lescent, the Danes and Norwegians sent. force to expel Athelstan from North-Anlaff adroitly allied himself with the 8 Sots, and the Welsh. The allied the English forces under Athelstan, aburg, in Northumbria, and was sigisted. In Saxon poetry and history, ry was called the Great Battle. After t, Athelstan enjoyed great considerathe continent of Europe. His sisters in marriage to the king of France, are in marriage to the king of France, we for of Germany, and a Norse king. a his 47th year, and was buried in the Malmesbury, leaving no family, and eded by his brother, Edmund. Engmed in civilization under Atlered. One

much to the code left by Alfred. One crees was, that any merchant who yages on his own account beyond the

nannel, or narrow seas, should be en-ne privileges of a thane, or gentleman. d learning, built monasteries, collected d encouraged the translation of the into the vernacular. Two of his into the vernacular. Two of his believed to be extant among the Cot-auscripts in the British museum. IA, or Pallas Athene, in Greek my-ne of the principal of the Olympian It appears from the various forms of that she was one of the most ancient onceptions of the Greeks. The fable th is thus related: Zeus, after a vio-the Titans, chose for his first spouse Metis; but an oracle having dethe son of Metis would snatch the way from his father, Zeus in alarm l both Metis and her unborn child. time of birth arrived, Zeus felt a in his head, and in his agony relephastus to cleave the head open re; whereupon Athena sprang forth, to the later accounts, in full armor, a mighty war shout. She first took s discussions of the gods, as an oppoe savage Ares. She gave counsel to against the giants, and herself slew I Enceladus, the latter of whom she neath the island of Sicily. She was 1 of heroism among men, and armed egis, aided her loved Greeks in the r. As a protectress of the arts of appears as a maiden, in many re-embling a princely daughter of the ic period. She bears in her hand the spindle, and the needle, and is said to nted and excelled in every kind of per to women. She also extended and original genius over the employments of men, and the agriculturist and the mechanic were under her care, and the philosopher, as also the orator and poet, delighted in her protection. In all these employments she is the symbol of thought, the goddess of wisdom; and as such she was worshipped throughout Greece, and under the name of Minerva, she was inherited by the Romans. She was especially the national divinity of the Athenians, having in the reign of Cecrops contended with Poseidon for the land, which she planted with the olive. On the Acropolis of Athens stood the magnificent temple of the Parthenon, dedicated to her, and containing her statue by the hand of Phidias: and the sacred festival of the Panathenæa, was celebrated with great splendor in her honor. In the representations of art, as in the events of her life, she remains the goddess of pure reason, raised above every feminine weakness, and disdaining love. The helmet, buckler, lance, and ægis, were her attributes; and the olive-branch, serpent, and owl, were sacred to her. She was in the ancient traditions represented as clothed, usually in a sleeveless tunic, over which she threw a glock or folding repulse.

in a sleeveless tunic, over which she threw a cloak, or folding peplus.

ATHENÆUM. I. A place, whether town or temple, sacred to the Greek goddess, Athena. II. A particular gymnasium at Athena, dedicated to Athena, where poets and orators used to assemble, recite their pieces, and instruct youth. III. A high school or university, founded by the emperor Hadrian, at Rome, about 140 B. C., for the promotion of literary and scientific studies. Under Theodosius II. there were \$ salaried oratora, 10 grammarians, 5 sophists, 1 philosopher, and 2 lawyers, employed in it as teachers; poets, pedagogues, orators, and critics, were also wont to come there to recite their productions, on which occasions the emperors were often present. This establishment became the model for a number of provincial schools scattered over the western empire, of which the best known are those of Lyons and Nismes. IV. In modern times, the name has been applied to voluntary associations of persons of literary or scientific tastes, for the purpose of mutual improvement.

ATHENÆUS, a distinguished Greek writer,

ATHENÆUS, a distinguished Greek writer, who lived in the 3d century of the Christian era, was a native of Egypt. He is chiefly known to us as the author of the Deipnosophista, a voluminous work of imaginary table talk, on almost every conceivable subject, especially gastronomy, between certain learned men while enjoying themselves, as it were, at supper in the house of an imaginary Roman named Laurentius, with Galen the physician, and Ulpian the jurist, among the guests. It consisted of 15 books, but only the 1st and 2d, and part of the 3d, 11th, and 15th, are now extant in an epitome, of which we know neither the date nor the author. Notwithstanding its many literary and artistic defects, the great mass of information which it contains, and the light which it throws on the manners of the ancients, will

ever cause the *Deipnosophists* to be prized by the scholar and the antiquary. The best edition of this work is that of Dindorf, in 3 vols., 8vo, Leipsic, 1827. An English version of it will be found in Bohn's Classical Library, which has at least the merit of being faithful.

will be found in Bohn's Classical Library, which has at least the merit of being faithful.

ATHENAGORAS, a Greeian philosopher, who became a convert to Christianity, and flour-ished probably in the reign of Marcus Aurelius, and his successor. It is said that he was a native of Athens, and first master of the catechetical school at Alexandria. His conversion was brought about as follows. Intending to write against the Christians, he applied himself to the study of the Holy Scriptures, but soon becoming convinced of their truth, he abjured Paganism, and embraced the religion which he had purposed to assail. He afterward addressed an apology to one of the emperors in behalf of the Christians, in which he refuted the charges of atheism, profligacy, and cannibalism, that had been advanced against them. He also wrote a treatise in defence of the doctrine of the resurrection, in which he proves that the presumptive arguments against it are inconclusive. These works of Athenagoras are still extant. Their style is Attic and elegant. The best edition is that of the Benedictines, Paris, 1742.

style is Attic and elegant. In e best curion is that of the Benedictines, Paris, 1742.

ATHENAS, PIERRE LOUIS, a French agriculturist, born at Paris, February 3, 1752, died March 11, 1829. He was a pupil of Buffon and Daubenton. In 1786 he settled at Nantes, where he remained until his death. He revolutionized the agriculture of the department Loire Inférieure, naturalized there the Guinea grass, invented a plough which brought him the gold medal of the academy of sciences, beside other services to rural economy.

side other services to rural economy.

ATHENION, a native of Cilicia, one of the chiefs in the servile war of Sicily under Salvius. He affirmed that the gods had commissioned him to deliver Sicily. Salvius, becoming jealous of him, threw him into prison, but he was released previous to the indecisive battle with Lucullus. He was finally defeated and killed by the Roman consul, M. Aquillius, 101 B. C.

ous of him, threw him into prison, but he was released previous to the indecisive battle with Lucullus. He was finally defeated and killed by the Roman consul, M. Aquillius, 101 B. C. ATHENS. In the history of civilization, Athens stands preeminent in the variety, and splendor, and permanency of her contributions to the progress of humanity. The great names that adorn her history, whether native or adopted, surpass in number and brilliancy those which have graced the annals of any other city. In statesmanship and war, in arts and cloquence, in practical skill and chastened taste, Athens still stands unrivalled among the cities of the European world.—Athens was anciently the principal city of Attica, and is now the capital of the kingdom of Hellas. It is situated in lat. 37° 56 N. long. 23° 38′ E, in the plain of Attica, about 4 miles from the cast coast of the Saronic gulf, and 4½ miles from the coast coast of the Saronic gulf, and 4½ miles from the port town of Pirsus. It was built round a central rocky height, called the Acropolis. This is an elevation about 300 feet above the average level of the town, and 600 feet

near it are several smaller elevation leys between. North-west of the A moderate height on which stands the Theseus. At a short distance from it west angle, is the Areopagus; and on the Areopagus is the hill of the Payz, hill of the Nymphs a little north, and seem, or hill of the Muses, at a short of the west. to the south. North-east of the city conical hill of Lycabettus, forming a able object in the landscape. in which the city stands, is bound by Mt. Parnes, which separates it from on the N. E. by Mt. Pentelicus, on the Mt. Hymettus, which descends to the the S. W. and W. by the Saronic of the N. W. by Mt. Ægalcos.—No doubt hold on the rock, afterward called th lis, was the germ of the city of Ather ancient cities, not only in Greece, but parts of the eastern world, may be t similar origin. They are built at som from the shore, that they may be creach of pirates; and on or aroun height, that the inhabitants may have refuge against the attacks of mar land. The Acropolis of Athens, and olis of Corinth, are among the most specimens of this manner of city Probably the first settlement was a chieftain who fortified himself on t and whose followers, with an agriculation, occupied the grounds adjace foot of the hill. By degrees, a comformed, not unlike the baronial e of the middle ages. But all the de-origin and growth of Athens are l darkness of an unfathomable anti-merous legends, however, having a l torical truth, gathered in the com-around the Acropolis, and were embe poetical literature, and in the work renown of which has filled the cording to these legends, Cecrops, and resented as an Egyptian settler, an autochthonous Pelasgian hero, fin session of the rock, which from his Session of the rock, which from his Cecropia. He was succeeded by kings, bearing the names of Cransus on, Erichthonius, Pandion, Erechthonius, Pandion, Erechthonius, Pandion, Erechthonius, Pandion, Current Arbibles. Aphida In the Demophon, Oxyntes, I lanthus, and Codrus, ond or third king, the ceived its name from e city Athens—the name which bear to the present day. have built a temple to Ath where he placed the status of olive-wood the a where he was himself buris (Il. ii. 546). mpk The

above the level of the Mediterran



conspicuous object on the Acropois, however, the favorite among
y kings of Athens. He is said to
the 12 communities, or cities, into
a was hitherto divided, into one
ly, and to have laid the foundation
titations which, remodelled by the
follon, and made still more popuemocratic tendencies of subsequent
existed, with occasional interrupthe entire historical existence of
ens. The memory of Theseus was
in after ages by the beautiful tembears the name of Theseum, and
stands, in better preservation than
ilding of the ancient city. Menes50 dark ships of the Athenians in
rar, and is pronounced by Homer
rarriors, except Nestor. The 17th
of Athens was Codrus, who sacrifor his country in a war with the
a invaders, who, according to an
to be victorious if they did not slay
he Athenians. After him, no one,
l says, was permitted to bear the
His son, Medon, succeeded him
me of archon, or ruler, holding the
er, upon the hereditary principle,
A line of life archons continued
ugh 12 reigns, Alemeon being the

the government of his predeces, supposed by some to be the anpoet Æschylus, commenced the lympic games, celebrated at interes, at Olympia in Elis, and affording the president has been presented for the computation of ient period for the computation of This date—the earliest fixed point ronology—has been satisfactorily t 776 B. C.—After Alcmeon, the chonship was changed to the term and a series of 7 decennial archons he government until 683 B. C., er change was made, and the office nual, its various functions distribucolleagues, and the right of elecd to the entire class of the eupa-bles. One of these—the head of -bore the title of the archon, and ad as the eponymus—a magistrate in the transactions of the year were recorded. The office of archoning after the independent political Athens and Greece had come to an recorded. sometimes held by distinguished whom the rights of Athenian citibeen conferred.—There is no comhe annual archons preserved. Be-3. C. and 292 B. C.,—that is, from st annual archon, to Philippus, the that is, from name, there should be 392 eponymic these, however, only about 236 are tween 485 B. C. and 294 B. C., the ten.—The only important political at them, at the time of the first of life archons, was the senate or reopagus, which appears to have

been, in its earliest constitution, the representa-tion of the Homeric *Boule*, and until the time of Solon, was called simply the Boule, or sen-ate. In the course of time, the oppressions and ate. In the course of time, the oppressions and abuses of the eupatridæ gave rise to popular discontents, and Draco was appointed, 624 B. C., to draw up a code of written laws. He made no change in the political forms; but merely attempted to introduce a code of laws, the unwise severity of which made it impossi-ble to execute them. Twelve years after Draco's legislation, Cylon, a distinguished and ambitious member of the eupatrid order, attempted to usurp the supreme power of the state, and occupied the Acropolis with a strong body of his partisans; but the conspiracy failed. Cylon escaped, and his partisans, who had taken refuge, some at the altar of Athena, others at the altar of the Eumenides, were put to death by the direction of Megacles, the representative of the house of the Alcmeonide. This act was supposed to have brought upon that illustrious race the curse of the gods, and they were expelled from the city in 597 B. C. Epimenides, the Cretan sage, was invited to purify the city from the pollution of sacrilege by expiatory rites. His visit is placed in 596 B. C.—The glory of Athens as a political commonwealth dates from the age of Solon, who was born about 638 B. C., of the most illustrious descent in Athens, o., or the most illustrious descent in Athens, since Codrus, the patriot king, was his ancestor. The virtues of his character, and his intellectual endowments and high culture, corresponded to the greatness of his birth. In 600 B. C., he reconquered Salamia by desiring the desi B. C., he reconquered Salamis by driving the Megarians out of the island. Afterward, being sent to the Amphictyonic council, he maintained the cause of the Delphian oracle against the Amphiesians of Cirra. At Athens, the citizens were divided into violent parties, and the lower classes were reduced to the most abject pover-ty. Many of them were reduced to slavery, or sold to pay their patrician creditors, and there was imminent danger of insurrection and civil Solon was chosen archon in 594 B. C., with unlimited powers to make any changes in the constitution of the state which might appear to him necessary for the public good. He devoted himself to this august task with all the force and sagacity of his vast intellect, and with his country, rarely equalled in the history of man. His political labors have exercised a wider and a deeper influence upon the governments of the most civilized nations, than those of any other legislator. His first act was a measure of relief for the oppressed classes, somewhat of the nature of a modern bankrupt law. He then proceeded to frame a constit tion, establishing and defining the limits, conditions, and rights of citizenship, and the legisla-tive, judicial, and executive bodies in the state. Heretofore, the principle of birth constituted the title to political power; he changed it from birth to property; from an oligarchical, to a timocratical system. This was a long step

toward the establishment of a democratic constitution, and was so generally acknowledged by Athenian statesmen of subsequent ages, that they habitually spoke of Solon as the founder of the democracy. He divided the citizens into of the democracy. To divided the chizens much defended to property: 1. The Pente-cosiomedimni, or those whose annual revenue was equal to 500 medimni of corn and upward.

2. The Hippeis, or knights, whose income ranged between 300 and 500 medimni, and who sufficiently wealthy to furnish a war-horse. The Zeugita, whose income ranged between 200 and 300 medimni, and who were able to keep a yoke of oxen. 4. The *Thetes*, whose incomes fell short of 200 medimni. This 4th class were exempt from taxation, and excluded from public office, but they served as light troops in the army. Only the first class were eligible to the higher offices of the state; the 2d and 3d classes filled the inferior offices; the 2d class served in the army as horsemen, and the 3d as heavy-armed foot soldiers. All classes had the right of voting in the public assembly, which elected the archons and other magistrates. Solon established another legislative body called the senate or council of the Four Hundred, elected by the assembly, 100 being taken from each of the 4 tribes, into which the people were divided long before Solon. The court of the Arcopagus was endowed by Solon with enlarged powers, and with the general supervision of the conduct and lives of the citizens, and the institutions of the state.—These were the principal institutions of the great lawgiver. His laws were inscribed on wooden rollers and tablets, and preserved first in the Acropolis, and afterward in the Prytaneum. We have only a afterward in the Prytaneum. We have only a few fragments of the original enactments; but it is probable that the leading principles of the code were embodied in the subsequent legislation of the Boule and the Ecclesia. Having constitute his heighties below Salon beauty completed his legislative labors, Solon bound his countrymen to abide by his enactments for 10 years, and left his country immediately for foreign travel. During his absence, Pisistra-tus, his kinsman, availed himself of the dissensions which broke out anew, to make himself master of Athens, and on his return, the schemes of the aspiring citizen had been already carried so far, that even Solon's influence was insufficient to thwart them. Pisistratus seized the Acropolis in 560 B. O. Solon remained unmolested at Athens, and died soon afterward, at the age of 80.-Notwithstanding the irre at the age of 80.—Notwithstanding the irregular and unconstitutional means by which Pisistratus acquired power, he made, on the whole, a wise and liberal use of it. He adorned Athens with many public works; he laid the foundations of the great temple of Olympian Zeus, south-east of the Acropolis, the ruins of which to this day excite the wonder of the traveller. He collected a public library, and called around him the most distinguished posts, artista, and scholars, from every part of Greece. He died 527 B. C., having administered the government for about 33 years, with the exception of

10 years passed in exile. His power ed to his 2 sons, Hippias and Hi who carried on the government in a with the same principles as their fathe government was overthrown by the a of Harmodius, and Aristogiton. Hi was slain 514 B. C., and Hippias, death, became a suspicious tyrant, and was compelled to quit Athens, 510 E sailed to Asia. The memory of the cides was cherished with extraordian ness by the Athenians, as may be so famous drinking song—

In a myrtle bough I'll bear my sweet

and their statues were erected near t of the Acropolis. Clisthenes and Isag now rivals for power, and the come Solon, under the forms of which and his sons had carried on the go went for a time into full operation nes, however, soon found the necess troducing some popular changes in tution, and of extending the right of public affairs to a larger number of the life accordingly reorganized the pervision them into 10 tribes, instead viding them into 10 tribes, instead Ionic 4 tribes; and these 10 tribes and were subdivided into districts ships called demes $(\partial \eta \mu \omega)$. We find of about 174 of these small local div was customary to designate every affixing to his name the epithet ind deme to which he belonged. The also changed, and its powers and di It now consisted of 500 ken from each tribe. T increased. 50 being taken from each tribe. control exercised by the people over of government, through the Ecclesi-greatly enlarged. Fixed times w lished for the meetings of this body. and decide their own affairs, and the the archons were reduced in proposition judicial powers of the people were aby the establishment of the Heliasti which 10 were organized, either by or soon after his time. The new a which 10 were organized, either or soon after his time. The new of the tribes led to a new arrang military service, the administrat was placed in the hands of 10 get ing chosen from each tribe. With sociated, however, the polemarch, who under the old constitution is sive military command. also introduced by Clisth standing the vindication of th niously attempted by Mr. monument of popular injuinstitutions, the city of Atstate of which it was the Mr. began to put forth the si-perity, which excited to The Spartans made seve-throw the growing demo-, 84 ,

to acomplish this purpose failed dissensions of the 2 Spartan kings lies, and the Athenians took advanretreat to conquer the Chalcidians, and to divide the conquered lands needy classes of their own citizens. In own made another attempt by plan for the restoration of the exist which resulted in the Persian infreece. The history of the Greek ongs to another place. We must selves here with 2 or 3 remarks. period, the stream of emigration set id the fertile region of Asia Minor 1 by a line of colonial settlements, uthern and western coasts, includant islands. The northern line of were those of the Æolian race, the he Ionian, and the southernmost.

he Ionian, and the southernmost,
These Greek-Asiatic states soon
h degree of external prosperity and
culture. The art of poetry espehed in those happy regions, with
unce, and the poems of Homer, not
the Lesbian Sappho, and the Ionio
f the bard of Chios, stand at the
ropean literary culture, and have
surpassed, if they have ever been
the department of the art to which
The Greeks of Asia Minor natu-

rought into contact, friendly or hos-Asiatic monarchies in their neigh-Babylonians, Medes, Persians, the Lydians. Under the reign of y the Lydians. he first half of the 6th century B.
ks of Asia Minor were reduced to nd his capital, Sardis, became the malth and refinement, and the resort d poets from the Hellenic world. empire owed its rise to power to f Cyrus, who conquered the Medes ians, and joined the Greek cities of s died 529 B. C., leaving his em-son Cambyses. His successor was ascended the Persian throne 521 to the year 500 B. C., serious diffi-menced between the Ionian cities than monarchy, and the aid of the ome was invoked. The Athenians eady sympathy with their Ionian d were incensed at the imperious e Persian satrap, Artaphernes, that recall Hippias. An Athenian fleet recall Hippias. An Athenian fleet ross the Ægæan; a sudden march on Sardis, and the city was burned. revolt soon after this event reached nd Darius made vigorous preparapress it, and to punish the Atheni-d so readily aided the insurgents, name he appears never before to

The fall of Miletus, 495 B. C., I speedily by the subjugation of all parations were now made to punish and especially the Athenians, for y had taken in supporting the re-

The first expedition failed miserably, the volt. Persian fleet having been wrecked in attempting to double the promontory of Athos, and the army of Mardonius being defeated with great slaughter by the Brygians in Macedonia, 492 B. C. Darius was not turned from his purpose by this disastrous result. In 490 B.C., he had asby this disast outside that the book of the had seembled a vast army and a fleet of 600 galleys. Datis and Artaphernes were placed in command, with orders to subdue all Greece, and especially to burn the cities of Eretria and Athens, and to bring their inhabitants to Persia, as slaves. They made directly across the Ægæan for Eubea. Eretria defended herself Ægæan for Eubœa. Eretria defended herself for 6 days, but on the 7th was betrayed by 2 of the citizens. From Eretria, Datis proceeded, under the guidance of Hippias, who had joined the army, to land on the plain of Marathon, in the expectation of speedily accomplishing the destruction of Athens. Among the 10 generals of this year at Athens, were the illustrious citi-zens, Miltiades, Themistocles, and Aristides. As soon as the fall of Eretria was known, a messager Philippides was sent to Spart, to messenger, Phidippides, was sent to Sparta to ask for aid, and a military force was marched over to Marathon, about 23 miles distant, on the eastern coast of Attica. The Spartans did not start in season to take part in the battle, being start in season to take part in the battle, being detained at home several days by a superstitious scruple which forbade them to commence a march before the full moon; but the little town of Platea sent its whole military force, consisting of 1,000 heavy-armed men, being moved thereto by a grateful recollection of the aid extended by Athens in a former period of distrage. The generals were divided in oninion aid extended by Athens in a former period of distress. The generals were divided in opinion as to the expediency of immediately attacking the formidable host of the Persians; but Miltiades, Themistocles, and Aristides warmly urged the attack, and influenced Callimachus, the polemarch, who had the casting vote, to give it in favor of battle. Fortunate for the history of the world, that manly counsels prevailed. We need not dwell upon the incidents of the momentous conflict; they are among the commonplaces of history. The Persians were defeated and driven into the sea. The poet defeated and driven into the sea. The poet Æschylus was one of the heroes of the day. defeated and driven into the sea. Those who fell were buried on the spot; a mound was raised over their remains; their names were recorded on 10 columns, one for the dead of each tribe; they were celebrated in song as the champions of Hellas:

At Marathon for Greece the Athenians fought, And low the gilded Medians' power they brought.

The columns have vanished, but the verses of Simonides remain; and the mound still stands on the plain of Marathon, an object of deathless interest to the traveller. Miltiades was honored with a separate monument, and his figure stood foremost in the picture of the battle with which the Poikile was adorned. Thus ended the second attempt of the Persians to subjugate Greece. In the Saronic gulf, about 12 miles west from the coast of Attica, lies the picturesque and hilly island of Ægina. In an-

cient times it was rich, populous, and flourishing, and was a formidable rival to Athens, by reason of its extensive commerce. The inhabitants were of Dorian descent, and this circumstance probably added bitterness to the ancient feud. Egina was one of the states that sub-mitted to the demands of Persia, by the sym-bolical act of giving earth and water to his envoys. They were complained of to the Spartans and the Athenians for this desertion. Cleomenes, the Spartan king, was dispatched with orders to arrest the leaders. He was prevented from executing the order by the intrigues of his associate, Demaratus; but, having caused Demaratus to be deposed, he succeeded in a second attempt, and placed 10 of the leading citizens of Ægina as hostages at Athens. After the battle of Marathon, the Eginetans endeavored to recover these hostages, but without success and hostilities broke out between the two states. Themistocles made this the occasion for urging upon his countrymen the importance of building a fleet, as the only means of coping with their adversary, and with the sagacious view of meeting the Persians on the sea, who were already making large preparations for another invasion of Greece. Two hundred triremes were accordingly built. It was not until 10 years after the battle of Marathon that the Persians completed their preparations. They were made on the most formidable scale. In 480 B. C., Xerxes, with his innumerable hosts, crossed the Hellespont, and commenced his southward march through Thrace, his fleet moving along the goest in convert with the ms southward march through Inrace, his neet moving along the coast, in concert with the army. The battle of Thermopylæ was fought, and the pass, after a desperate resistance, forced. A second time the genius of Simonides commemorated, in a few pregnant and immortal verses, the exploits of Hellenic valor; but now it was the Spartans who were the subject of his mighty line:

Stranger, the tidings to the Spartans tell, That here, obeying their commands, we fell.

The Persian fleet suffered the loss of 400 ships by a terrible hurricane off the coast of Pelion; and, soon afterward, they encountered the Greek fleet near Artemisium, and, though the victory was not clearly decided, suffered severely in the encounter. After the battle, the Greek fleet withdrew through the strait of Eubrea, sailed round the promontory of Sunium, and took up a position on the eastern side of the island of Salamis. The army of Xerxes, mean time, was rapidly marching upon southern Greece, and would reach Attics in a few days. The oracle of Delphi had warned the Athenians to fly to the ends of the earth. A second response intimated that the wooden walls would shelter them when all was lost. The Athenians removed their women and children to Salamis, Ægina, and Træzen, on the opposite coast of the Saronie gulf, and made vigorous preparations to meet the shock of the Persian fleet. Some, however, took refuge behind the wooden barricade of the Acropolis. The Persian host, on

arriving at Athens, took up their p the Areopagus, which is separated north-west angle of the Acropolis of north-west angle of the Acropolis and narrow valley, and assailed the woo parts with burning arrows; but this bring the intrepid defenders to tellength they gained the summit by the steep rock on the northern at the cave of Aglauros; the temples a buildings on the Acropolis were pill burned, and the defenders slain. In fleet, about the same time, reached of Phalarum. By the influence of of Phalerum. By the influence of tooles, the Greek fleet awaited theu mis; a great battle was fought, in which sians were disastrously routed, 40 sl sians were disastrously routed, 40 al lost on the side of the Greeks, and 1 part of the Persians. We have a be scription of this battle in the "Persians, who fought here as Marathon. Xerxes immediately homeward march, leaving Mardonia cute the war in the following spa Athenians returned to the city, and commenced rebuilding it. They retempting offers of the Persian commended to detach them from the He ance. He again took possession of ance. He again took possession of the summer of 479 B. C. The Spa had been selfish and lukewarm, thoroughly roused to their danger, a large army to the frontiers, and retreated into Bootia. and the death of Mardonius, put an further danger for the present. Than and magnanimity of the Athenia these severe struggles, justly gave the commanding position among the Grand laid the Completions. and laid the foundation of the ny, or headship, which they exercise the interval between the Persian in the Peloponnesian war. Many of the G of Asia Minor and the islands of the fournest a league for the comment of t of Asia Minor and the islands of up formed a league for the common de acknowledged the leadership of A agreeing to pay a contribution of ships, she undertaking the duty of them, by her powerful fleet, against rians. This was called the confit Delos, because the contributions was posited there, under the charge of cers called Hellenotamiss. The re at first assessed by Aristide tation for justice commanded the call. In 470 B. C. the island of Scry quered and colonised by Cimon, as of Theseus carried thence to Ather mand of an oncele. They were mand of an oracle. They we solemn ceremonies, in the conse of the Theseum, a temple erect the national hero, and to this most beautiful ornaments of the They we building of Athens on a larges stronger defences, excited the

d by massive walls the fleet was in-the harbors of Piraus and Munychia fed with walls and towers, vast ruins remain to this day. The walls of closing the Asty, or town proper, in-Museum, the Pnyx, the Areopagus, dis, extended north-east nearly to the abettas, probably crossed the lissus at a h of the Acropolis, and then ran harm above mentioned. There is, e hills above mentioned. There is, difference of opinion among anti-to some of the details of the walls, xtent, but as no trace of them now e only mode of coming to a probable is by carefully studying the topograph-f the ancient authors. The line above f the ancient authors. neems to answer best all the condiproblem. Forchhammer, the eminent ad Col. Leake, the admirable author graphy of Athens, are the principal thorities. Col. Leake gives the walls a pecially on the southern side, but of Forchhammer have been gener second in. Among the ancients, the description of the walls, as they opening of the Peloponnesian war, en by Thucydides (lib. ii. 13). The connecting the city with Pireus rum, were commenced in 457 B. C. sted in the following year, the object rround the port, town, and the city broken series of fortifications. At a d, an intermediate wall, parallel to rn or Pirseic wall, at the distance of so built, under the direction of Perise southern, or Phaleric wall, seems an suffered to go to ruin. A carefrom Pirseus to Athens was construent the long or parallel walls stween the long, or parallel walls, were allowed to occupy the spaces L. The length of the wall surroundwas about 8 miles, the Pirmic and walls about as much more, and the about 4½. Considerable uncertainty to the number, position, and names of sites. The names of 11 have treed, and the situation of some been made out with a good de-obability. The gates mentioned are m, the Sacred gate, the Pirecic gate, n gate, the Itonian gate, the gate of the Diomeian gate, the Herian gate, ian gate, the Equestrian gate, or the gens. The first 4 were on the west-the city; the Itonian on the south-the of Diochares, and the Diomeian, the gate of the gens and the Diomeian, the gate were the city the Itonian on the south-the of Diochares, and the Diomeian, the gate were the gate gate gate gate gate. ern; and the 3 last mentioned in the northern side.—The progress of letters and arts, in the period of her was wonderful; but the most brilher brilliant career was that of ho, born of the noblest Athenia i educated under the ablest masters born of the noblest Athenian rd as a popular leader in 469 B. C. **VOL. IL—18**

He was the most eloquent in public debate; the He was the most elequent in public debate; the most accomplished in literary and philosophical acquirements; the most far-seeing and profound of all the statesmen of his time. He commanded several military expeditions, and exhibited the qualities of a consummate general. He had a handsome and dignified person, a sweet and powerful voice, and a most persuasive manner. Aristophanes says, "he thundered and lightened and stirred up all Greece." Of his elegenence, only a few sentences quoted by and lightened and stirred up all Greece." Of his eloquence, only a few sentences, quoted by Plutarch, remain, if we except the speeches recorded in Thucydides, which do not purport to be literally such as he delivered them. The best character of this great man is the one drawn briefly and tersely by Thucydides. "The cause of his influence," says that great writer, "was that, powerful in dignity of character and wisdom, and having conspicuously shown himself the most incorruptible of men, he curbed the people freely, and led them instead of being led by them. For he did not speak to their present favor, endeavoring to gain power by unbecoming means, but dared to brave their anger while holding fast to his own dignity and honor. The constitution was a democracy in word; but in fact it was the government of the most distinguished citizen." With slight interruptions, the administration of Pericles, as the most distinguished citizen." With slight interruptions, the administration of Pericles, as we may call it, lasted from 469 to 429 B. C.—the long period of 40 years. The government was carried on through the usual agencies. Pericles held no permanent office, though he was often appointed to places of trust and honor by the ropular water. He maintained him. or by the popular vote. He maintained his lofty station solely by the force of character, and by extraordinary ability. In his time, every branch of literature flourished. The great names of Æschylus, Sophocles, Euripides. Aristophanes, in dramatic poetry; of Phidias and his school in plastic art; of Anaxagoras and Socrates in philosophy, are connected with this period. The treasury of Delos was removed to Athens, the amount of contributions increased beyond the assessment of Aristides, and the Athenians, having assumed the protection of the confederacy, assumed also the right of using the funds for any purpose they pleased. The policy of Pericles was to make Athens not only the political head of the states, but the centre of art and literature—the school of civilization. Public buildings of extraordinary splendor were erected by the ablest architects. The were erected by the ablest architects. The temple of Theseus was already completed, the exquisite little temple of the Wingless Victory, on the right of the ascent to the Acropolis, was probably built in the time of Cimon. The temple of the Olympian Zeus, begun by the Pisistratidæ, had been neglected, and was not yet finished. The great structures of the Periclean age were, the Odeum, finished 444 B. C., the Parthenon, 387 B. C., the Propylæa, 432 B. C., the Erechtheum, which was not quite completed at the breaking out of the Peloponnesian war. This magnificent system of public works was under the general su-

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serintendence of the sculptor Phidias. The rehitects of the Parthenon were Ictinus and callicrates. Mussicles was the builder of the Callicrates. Mnesicles was the punger of the Propyles. Plutarch gives an animated descrip-Propyless. tion of the busy aspect of the city while these works were going on: "Then the mechanics were not without their share of the public were not without their share of the public money, nor yet received it to maintain them in idleness. By the building of great edifices which require many arts and a long time to fin-ish them, they had equal claims to be recomish them, they had equal claims to be recom-pensed out of the treasury with the mariners, soldiers, and garrison troops, though they stirred not from the city. For the different materials, such as stone, brass, ivory, gold, ebony, and cy-press, furnished employment to carpenters, moulders, braziers, stonecutters, goldsmiths, frory painters, turners, fancy workers, and other artisans; those employed in transporting the materials by sea, such as merchants, sailors, and pilots; and those employed on land, such as wheelwrights, wagoners, drivers, ropeand piots; and those employed on land, such as wheelwrights, wagoners, drivers, rope-makers, linen-workers, leather-cutters, road-makers, iron founders, and every art and trade had its subordinates ranged in proper order, to execute the commissions, like soldiers under the command of a general. Thus, by the exercise of these different trades, was plenty diffused among persons of every rank and condition." The works of Phidias are still the teachers of the purest principles of sculpture. The Parthethe purest principles of sculpture. The Parthenon reveals perfections in artistic skill and the practical application of scientific principles, which have never been approached in any modern structure. The buildings of the Acropclia, and the innumerable other works of art which were accumulated there, made that rocky height not only the centre of Hellenic religion, but the noblest gallery of art in the ancient or modern world. The embellishment of the city and the accumulation of the city and the city and the accumulation of the city and the accumulati and the progress of its political power, as well as of its commercial prosperity, were interrupt-ed by the fatal Peloponnesian war. The jealousy of Sparta was excited by the overshadowing power of her ancient rival. The hostile feeling was increased by enmity of race, the Spartans being the conspicuous representatives of the Dorian stock and the Athenians of the Ionian; and by d of political organi-Ħ zation and de between the influences under v nowhere so ably tion by Pericles. ing the generous and l nian institutions, silently p characteristics of those of by not only enjoyed an equality or law, but cherished a noble con-other in private life; they cultivate the magistrate, and a fine sense of ho submitted to the unwritten laws of noble co both from the self-respect of a sensibility to the shame tion by public opinion. " heroes of past ages l

ed sepulchre; not se .. vu lies lie buried as the in which en their glory, on every occasion of shall be held in everlasting rem of illustrious men the whole car ion of w chre, signalized not alone by the inst the column in their native land, be not their own, by the unwritten n not their own, by the unwritten men dwells with every man, of the spirit the deed." The Peloponnesian war 431 B. C. The Lacedsmonian tree the plain of Athens, and the inhabits country crowded into the city. It year, 430 B. C., a second invasion t and the plague, so powerfully describ cydides, carried off not less than a fo inhabitants, beside causing the more inhabitants, beside causing the mos demoralization. The children of Po among the early victims, and the gran himself was carried off in the year, leaving no one to take his place who came after him," says Thucydia more on an equality with one and eager to stand foremost, made it 1 gratify the passions of the people, object sacrificed the public interest not the place to relate the varying this long and most disastrons war-tion sent out by Athens to Lesbos teria; to Thrace; the truce for a year ishment of Thucydides, who afterwas ishment of Thucydides, who afterwas name immortal by his history; the tupon for 50 years, which lasted only 7 years, and really hardly one; the to Sicily, which commenced with so and splendor, and such vaunting as and ended so deplorably in the thin comparison of Decelais by the Lasted and ended so deplorably in the thire occupation of Deceleia by the Laced the revolt of Lesbos; the overthe democracy, and the establishment edil of the Four Hundred; the batth uses, and the condemnation of the defeat of the Athenians at A which led to the surrender of Asi B. C., to the Spartan general Ly democracy, which had been restore abolished, and a government of This ed, under the control of Sparta, tory as the Thirty Tyranta. The excesses of this edicus, eliganthy of this o Xenophon, who took was the point where the The walls o vorable to oli eriod of ol from th ated Oriti



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n them. Thence was partially restored, was one inst superior and hostile forces. ular that the intellectual activhighly gifted race does not apeven during the most rears of the war. Dramatic and is for the prize took place yearly; games and the religious pomps were he arts were cultivated and pracexternal troubles were exhausturces of the state, and preparing. And after the war was over, ocracy was restored, the city was bre the centre of cultivated soavorite home of poets and it the school of the arts. Pol Political urished even with greater brillian-be days of the Attic supremacy; ext great struggle, the genius of shone with unrivalled splendor. a contemporary of Aristotle and and the author of a work on the ellas," says in a fragment of that thens was ill supplied with water, on account of its antiquity; the the private dwellings) generally administrant; so that a stranger thardly believe this to be the cel-Athens. But when he should rb theatre; the costly temple of the Parthenon, overhanging the temple of Olympian Zeus, which taked, fills the beholder with y the magnificence of its plan; the is, the academy, the lyceum, and a, all of them shaded with trees, hed with grassy lawns; having a haunts of the philosophers, and schools, and the festive scenes by we of life are cheated of their prey, we another impression, and would this was in very truth the famous.

The hospitalities of the citizens of the stranger agreeable. of the stranger agreement, and the supplies for every want, and the supplies for every desire. The gratifying every desire. The towns are but suburbs of Athens. mts are forward to recognize the y artist; and though among the are busy-bodies and gossips, who is in spying out the way of life of the genuine Athenians are magniple in manners, trusty friends, and critics. In the arts, in short, ther cities excel the country in the oyment, so much does Athens sur-cities. As Lysippus says:

Athens, then thou art a log, not been charmed, thou art an ass

between 403 B. C. and 860 B. C., nated as that of the Spartan and cancy, is signalized by the extra-centures of Xenophon, the Athe-expedition of Cyrus the younger,

and the retreat of the Ten Thousand, and the war of the Lacedemonians, under Agesilaus, in Asia Minor; the Corinthian war; the peace negotiated by Antalcidas and bearing his name in history, 887 B. C.; the partial reorganization of the Athenian confederacy; and by numerous distant expeditions, both by the Lacedemonians and the Athenians. The principles of the new confederacy were substantially the demonians and the Athenians. The principles of the new confederacy were substantially the same with that of Delos. The states and cities composing it were to be politically independent, and the common affairs were to be placed in the hands of a body of deputies, meeting in congress at Athens. Demosthenes was born in the Deme of Pæania, near Athens, in 882 B. C., the year of the first attack upon the Olynthians by the Spartans. Isocrates, the Athenian rhetorician, was writing Isocrates, the Athenian rhetorician, was writing and publishing his political discourses, especially the elaborate eulogy on Athens and her institutions, entitled the *Panagyrious*. In sold B. C. a general peace was concluded by consent of all parties except the Laceds-monians; but in the following year, the Athenians went to war with the Olynthians, for the possession of Amphipolis, and this war brought them into collision with the formidable power of Macedonia, under the able lead of Philip, and after his death, under that of his still abler son, Alexander. The period of struggle between Athens and the Macedonian power, is not only very important in the history of the gle between Athens and the Macedonian power, is not only very important in the history of the city, but in some respects is the most brilliant for the intellectual achievements of the great Athenian leaders. Political eloquence, which had long flourished under the influence of the democratical constitution of Athens, reached and passed its culminating point, in the orations of the political leaders, which fortunately tions of the political leaders, which fortunately have come down to us. Of course, those of Demosthenes stand at the head, not only of Greek and Roman eloquence, but of the political eloquence of the free nations of modern Europe. Philip and Demosthenes were probably born in the same year, 382 B. C. Philip succeeded to the throne of Macedonia at the age of 28, and in the same year Amphipolis was declared a free city, and peace was made in 859 B. C. In the next two years Amphipolis was taken; the Athenians sent an expedition to Eubosa; Chios, Rhodes, Byzantium revolted from Athens; the Phocians seized Delphi; and the so-called Sacred War commenced. In 856 B. C. Alexander was born, and Potides was taken by Philip. In 855 B. C. the war between Athens and her former allies was concluded, and in the following year, 854 B. C., Demosthenes began his career as a rhetor or statesman, and made public speeches in the assemblies at the age of 28, having already appeared before the dicasteries, or courts, in several civil causes. He had educated himself carefully for a political career, although he had been left an orphan at a tender age, and his in-heritance had been partly squandered by his faithless guardians. The first exhibition of his

remarkable ability was given as soon as he reached the legal age, in the prosecution of his guardians. The arguments delivered by him before the court are distinguished by clearness of statement, chasteness of style, and logical power. They are business speeches, and give us not only a high idea of the talent of the young pleader, but of the sedate and rational proceedings of the court before which the cause was tried. Of the special studies of Demos-thenes, we know but little. In the oration on the Crown, he speaks of his early education as being that of an Athenian gentleman in easy circumstances. There is some reason to suppose that he was not ignorant of the philosophy of Plate, whom he knew personally and esteemed; and that he was instructed by Isaus, whose style was apparently the model on which the speeches against his guardians were composed. He became a member of the *Boule*, in 354 B. C., and in the same year delivered several public and in the same year delivered several public orations. At a very early period he took the ground of uncompromising hostility against the encroachments of King Philip, whom he regarded as a very able, ambitious, and unscrupulous enemy to the liberties and independence of Greece. In the contest that ensued, he never the result of the profile of the p Greece. In the contest that ensued, he never shrank from the perils of his position. The threats of domestic factions, the slanders of private and public foes, the offers of the rich, the blandishments of Philip's agents, had no power to seduce the incorruptible integrity of the great Athenian. In youth he had been of feeble health; he had a voice of no very pleas-ant anality, and defects of enunciation, both ant quality, and defects of enunciation, both of which seemed to disqualify him from taking part in the debates of the Pnyx, if not from pleading in the courts. But he had received at his birth a genius which no physical difficulties could stifle. His mind was clear and strong, and was well trained by careful study. His passions were subdued to his will by the austerest temperance; so that in after years his profiltemperance; so that, in after years, his profil-gate opponents taunted him with being a water-drinker. Strenuous industry conquered his physical deficiencies. The lessons of a noble philosophy, harmonizing with the natural lofti-ness of his character, gave him a grand style of thought, and inspired him with a profound contempt for baseness and cowardice ment, and weakness of action. He ha of senti-He had formed ment, and weakness of action. He had formed in his mind an august image of his country and her ancestral glories; and as he looked around him from the Bema, the spirits of the great men who had stood on that spot, and whose genius had made Athens what she was—the dory of the Hellenic world-seemed plory of the Henemic world him above all selbsh aspirations, and to inspire that sublime political morality, which even now elevates the soul of the reader. The sentiments of national and personal honor, the duty of fol-lowing the example of illustrious forefathers, of maintaining the proud position once taken as the unshrinking defender of the freedom of Greece, and of leaving the consequences in the hand of God, were never more boldly

proclaimed than in his great orati style of Demosthenes is the man Den Simple, but at times rising into the regions of eloquence; calm generally passioned when the occasion justificate expression; nervous; with never fluous word; never wandering into loos tion; sparing of ornament, according t rigid requirements of Attic taste; b employing a striking and beautiful which not only electrifies the imagin which not only electricists the image enlightens the reason; severely logic hibiting every turn of the thought t texture; as transparent as the stream crystal fountain; the style of Dems the highest perfection of human spee miration of critics, the despair of in style of Demosthenes was Demosths was with this marvellous genius, an lectual armor which that genius w forced by incorruptible patriotism, a that never quailed, capacity for never wearied, liberality that never hausted, passionate love of Athens grew cold, boldness of determination hesitated when the judgment was on —it was with this formidable array forces, gathered and concentrated der, nervous man, that the wealth a power, and despotic will of Philip, tend. In some respects the contest w but not so unequal as it is someti-sented. Honor, truth, eloquence, corruptible integrity, unseduced are mighty, and must in the end pre-disastrous battle of Charronea, wi disastrous battle of Charronea, we with report Isocrates, the old man placed the fortunes of Hellas in the Philip; and later still, after the deal and Alexander, the mercenaries of the nian pursued the exiled Demesth asylum in the temple of Possidon, a from which he could see the share this asylum was violated; he asselled His asylum was violated; he swallor and escaped the insults of his e death. How stands the case now? the mighty combatants before the posterity? Whose influence is no the mighty combaiants below the posterity? Whose influence is not good? Which has gained the vict course of the ages, and on the battle history? The particulars of the atween Athens and Macedonia belogeneral history of Gresce, rather taketh of Athens, which is all we here. But the life and labors of the forward stateman are so identified tor and statesman are so identifillustrious city, that so grand a not be omitted, even in this brief fortunes. The battle of Chascas the army of Philip on the one combined forces of Athens and Tl other, was fought in \$38 B. C. news arrived at Athens, it productions are included in the city in a state of defence, thenes was elected superintendent. tor and statesman are so identif

executing the works committed to he added a considerable sum from fortune to the public appropriations.
so appointed commissioner for the The inhabitants of the rural foom. re summoned to leave their resi-I take refuge either in the city or in r fortresses of Phyle, Eleusis, and An immediate invasion of Attica ad, and every thing that the most d fearless energy on the part of De-could do to meet the impending danne. It was made a capital offence ecity. Either these vigorous measence, or the deep policy of Philip, him from following up his victory, was spared the horrors of a siege. ate aim was to place himself at the united forces of Greece, and to ina; a scheme that was looked upon by some of the Athenian statesmen. ad advocated it, placing confidence ations of Philip, until the battle of pened his eyes. But all these ampened his eyes. But all these amposes of his active and subtle intel-addenly ended by his assassination at B. C. The death of Philip, no selt as a great relief by the party at which Demosthenes was the head, ats were initiated to throw off the a supremacy. But Alexander, then 20, quickly showed that his genius mbition were quite equal to his Demosthenes exerted himself to the eal the dissensions among the and to bring about a union against cians, but all to little purpose. Al-material appointed to the command of etyonic forces; the Athenians were send an embassy to conciliate the A general congress at Corinth with the office of commander of or the Persian war. Disturbances, mong the Triballians and Thracians, to the north, and during his absence ionary movement took place at wed by Demosthenes and his party Alexander marched upon the It was besieged and taken. were alain or made slaves, and the ept that of the poet Pindar, were The Cadmeia, or citadel of Thebes, ed by a Macedonian garrison. The Alexander, but the demand was not compliance. Alexander crossed the and commenced his career of quest in 884 B. C. His wonderful are heart to the Macedonian party sek states, and maintained an ill-inquillity at Athens. The most im-ints were the trial of Ctesiphon, on a Rechines, of violating the constitu-he arrival of Harpalus at Athens, a later, from Asia, with an immense which he had robbed Alexander.

The former transaction had its origin in po-litical hostilities between Demosthenes and Æschines, as leaders of opposite parties. The proceeding was instituted soon after the battle proceeding was instituted soon after the battle of Chæronea, the calamitous result of which was charged upon the policy of Demosthenes. Notwithstanding this apparent disadvantage, the people retained unshaken their confidence in Demosthenes, as they showed by appointing him to important public offices, and by choosing him to deliver the funeral eulogy over those who had fallen on that disastrous field. But his enemies annoyed him by every form of legal persecution that the laws of Athens allowed. To put an end to these annoyances, Otesiphon, a political friend, proposed that a legal persecution that the laws of Athens allowed. To put an end to these annoyances, Ctesiphon, a political friend, proposed that a crown be conferred by the people of Athens on Demosthenes, for his past and present services to the commonwealth, and for his general merits as a good and loyal citizen. This was one of the modes of recognizing eminent public services. The proposition passed the preliminary stage, and was sanctioned by the senate, but before it could be carried into execution, it was necessary to receive the vote of the coclesia. In the mean time, it could be arrested by any citizen who should see fit to interpose, by the process called should see fit to interpose, by the process called $\gamma \rho a \phi \eta$ waparouse, or indictment for illegal propositions, against the mover of the measure, on the ground that the facts on which the measure was recommended did not exist. Unmeasure was recommended did not exist. Until this question was judicially decided, the original proposition for bestowing the crown was suspended. Ctesiphon was the nominal object of the prosecution, but the real motive was to ruin Demosthenes, by a sweeping assente upon his public and private character. The actual trial, for reasons which it is not now possible fully to explain, was not held for several years. The exact time when it took place is uncertain, but the probability is that about 8 years were allowed to pass before the final battle was fought. If this opinion is correct, the trial was held in 330 B. C. At this moment, Alexander was in the full flush of his eastern conquests, and this may have been the reason for selecting that this may have been the reason for selecting that time to bring the question to a judicial decision. The partisans of the Macedonian interest were, of course, in full confidence in the strength of their position, and no more favorable time could be anticipated for the overthrow of their enemies. Mean time the rumor of the proceeding had gone abroad all over the Hellenic world. The greatness of the interests at stake, and the overbearing importance of the political questions involved, the fame of the rival orators, and the wonderful attractions of every description which the city of Athens held out to visitors, drew a larger crowd thither than had ever assembled on any similar occasion. The mimic interests of the tragic stage filled the city every spring with the lovers of letters and art, at the Dionysiac festival, but here was a deeper and more moving tragedy than those of the line of Atreus or Pelops; here was a profounder interest than the woes of Œdipus,

or the heroism of Antigone; here was the liv-ing interest of great principles, the fates of liv-ing and illustrious men; the stirring appeals of the most marvellous powers of oratory, inspired by personal passions, by hopes and fears, by love of country and dread of slavery, by reverlove of country and dread of slavery, by reverence for the past and the prospect of glory in the future. No wonder every man of Hellenic culture, every man with a drop of Hellenic culture, every man with a drop of Hellenic blood in his veins, should be eager to witness such a scene. Æschines brought to the contest distinguished ability, a powerful voice, well-trained action, great legal acuteness, wonderful skill in the enforcing of special points, a perfect mastery of all the topics of personal attack, resentment from past conflicts, and the sense that his position and influence as a public man hung upon the chances of success. Demosthenes brought the inspiring consciousness of a life consecrated, with no divided purpose, to the highest good of his country. He felt that, as far as he was concerned, she had never lost her honor; that no opportunity had been omitted by him, to remind his countrymen of their duties to the memory of their ancestors, and to duties to the memory of their ancestors, and to themselves; that he had never counselled a mean action, an action that was not in accordance with the loftiest principles of public and private honor. He felt that his long political life would bear a review, and come out unharmed from the fiercest hostile attack; and he felt full confidence in the real sentiments of his country. confidence in the noble sentiments of his country men, whom he had not flattered in his public addresses, but had often sternly rebuked. He hadresses, but had often sternly rebuked. He knew they understood him, and appreciated his courage, his integrity, his disinterestedness, the austerity of his morals, his lofty standard of public conduct, for individuals and for states. He did not hesitate, he did not doubt his success, in the midst of the disheartening political incurrences of the time. cess, in the midst of the disheartening political circumstances of the time. He did not misjudge his own position, he did not mistake the character of his countrymen. The court was crowded, all the neighboring spaces were crowded with a densely packed and eager multitude. The orators were thoroughly prepared. They both acquitted themselves as they had never done before; but brilliant as was the oration of Æschines, his great rival rose to an immeasurable height above him. The clearness of his narrative, the force of his invective, the nerve of his language, the irresistible conclusiveness of his argument, the splendor of his sociational illustrations, the sublimity of his sudden apostrophe to the heroes of Marathon, and Salamis, and Platæa, who lay buried under monapostrophe to the heroes of Marathon, and Sal-amis, and Platasa, who lay buried under mon-uments raised by a grateful country, the lofty ethical sentiments breathing through his ani-mated sentences, produced their natural effect upon the minds of the dicasts, and Alschines did not receive votes enough to save him from the penalty denounced by the laws against the malicious accuser. This result was no less hon-orable to the people than to Demosthe-nes, and this scene clothed the day with an eternal interest for the statesman, the

the most conspicuous glories of the Athena. We have dwelt upon it at the because we regard it as eminently char of the general tone and temper of the state in which it occurred Harpaln in Athens 5 years after this memo He employed his stolen gold amor ular leaders chiefly for his own pers The enemies of Demosther opportunity of accusing him of bribe on this occasion. The Mace was stronger than ever at this mom notwithstanding the contradictory of his accusers, the opposition wh made to the reception of Harpalus, ter failure to produce a single fact in against him, he was declared guilty by awed court, thrown into prison, but a escape with the counivance of the m who were doubtless fully convinces absurdity of the accusation, and took of absolving themselves for allowing nical condemnation of an innocent wa a time he resided at Treezen and Ægi he passed his days in looking across his beloved Athens. When the new ander's death arrived, 323 B. C. a tempt was made to overturn the Mace premacy. Demosthenes, though in ex the ambassadors, and again employed I less eloquence in patriotic devotion to the his country's independence. The p passed a decree recalling him fro The peo passed a decree recaling him froe
public trireme was sent over to Æg
him home. The whole population
Piraus, and escorted him in joy a
up to the city. So nobly did the
the momentary timidity of one of t
and this again was a scene highly el and this again was a scene highly che
of the tone and temper of the people of
The contest was renewed. Leosthenes,
nian, defeated the army of Ant
Macedonian general, at Lamia, a shor
north of the pass of Thermopyles; b
umph was only momentary; and the
the Greek forces at Crannon in The
more placed the Macedonians in the
The Lamian war desed with the une
surrender of Athens to Antipater. I
nes and the other craters, who had a
selves obnatious to the brutal venges
Macedonian soldiers of fortune, field!
torn from their sanctuaries. Hype torn from their sanctuaries, cornelly murdered at Athens.
has already been stated, escap
by taking poison at Calaures,
Poseidon, dying there, in 322
of 60. The leaders of the op
most honorable of whom was incorruptible Phoeien, cruelty. From this time, victim of the contending of Demetrius, the Phalerean years, supported by a Mace in 306 B. C. Demetrius,

scholar, the moralist. It is, for all tim

med Polioroetes, the besieger of sent from Ephesus by his father, alled his namesake, the Phalerean, to the city. The conqueror announced pple the restoration of their ancient n, and was the object of extraordi-rs and the most degrading flatteries, at of the mob, who were now like hout a shepherd, all their great men appeared or perished. Athens con-der the Macedonian influence, down nquest of Greece by the Romans, minally governed by her own laws, administration of her own magis-I preserving her ancient customs, rites, and ceremonies of every description.

C., the last Philip of Macedonia was
a war with Rome, in consequence of furnished aid to the Carthaginians. bred from his barbarism, she having s with the Romans in order to throw pression. The city was relieved by a pression. The city was relieved by a et; but before Philip withdrew from he laid waste the gardens and sublaid waste the gardens and sing the lyceum, and the tombs of barces, and destroyed the temples that he Attic plain. Philip was defeated he of Cynocephalæ, in 197 B. C., and owing year Greece was declared free temples. comen consul Flaminius, at the Isth-But war was again renewed by ad the Macedonian empire was finally at the Macedonian empire was finally as by Lucius Æmilius Paulus, in 167.

147 B. C., war broke out between league and Rome, but it was closfollowing year with the capture and borinth, by the consul Mummius, and 146 B. C. saw the whole of Greece and Power province under the page. Da Roman province, under the name
Under the Romans, Athens was
and respected. She became the d conqueror of her conquerors. eloquence and philosophy were open lised world. The sons of princes and sished Roman citizens were sent there their education under the ablest Her splendid temples remained unin-by the liberality of foreign potentates. Alladelphus, in 275 B. C., had built tim near the temple of Theseus. ing of Pergamus, in 240 B. C., had d the Acropolis with groups of stat-174 B. C., Antiochus Epiphanes rework upon the great temple of Zeus; and numerous other foreign conbeside the single productions of native every department of art—in painting, specially the portraits and statues of citizens -were added to the treasures Athens occasionally suffered dur-She took part with Mithriril wars. was besieged and captured by Sylla, oyed the Long Walls, and the fortificainilated the commerce of Piræus, and ity so crippled in all her resources,

that she never recovered from the blow. When the orators sought an interview with the ferocious general and reminded him of their past renown, and the glories of Marathon, he gruffly answered, "I was sent here to punish rebels, not to study history." His soldiers plundered the city and slew the citizens, until the tide of blood flowed into the Ceramicus. The groves of the academy and the lyceum were cut down, and columns were carried off from the temple of Olympian Zeus, to adorn some public building at Rome. But these public calamities still left Athens the distinction of being the intellectual capital of the civilized being the intellectual capital of the civilised world. She was still crowded with works of art, and her schools were still the resort of the highest class of Roman youth, and of the men of the largest culture everywhere. Atticus, the friend of Cicero and of Pompey, resided there many years, in the enjoyment of a refined esse and literary leisure. Cicero sent his son to complete his studies, where he had himself received instruction from the ablest teachers of philosophy and elequence. Of the precions philosophy and eloquence. Of the precious letters of the great Roman orator, his correspondence with Atticus, while in Athens, and with his own son, while engaged in his studies, is among the most interesting and entertaining. is among the most interesting and entertaining.

Cicero repeatedly visited the city. Once, on arriving at the gates, before entering he turned off, and pursuing the road through the clive grove, north of the city, paid his homage to the academy, which the eloquence of Plato and a long line of eminent successors had made imported. It was from Athens that Subsidiar edmortal. It was from Athens that Sulpicius addressed the letter of consolation to Cicero on the death of his beloved and accomplished daughter. Horace and Virgil studied in Athens, and nurtured their genius with her abundant and still living literature. The establishment of the empire literature. The establishment of the empire made but little difference in the condition of Athens. She still continued the school for the education of the high-born youth of Rome, and her literature furnished the models, both in poetry and prose, for the imitation of the Augustan literature of the imperial city. Her artists were employed to build the temples and chisel the statues, which made the Augustan magnificants. cence of Rome. Her language was studied and spoken by the highest society; and in the Roman schools Greek was taught at the same time with the mother tongue. The transcendent event in the reign of Augustus, was the birth of Christ in Judæa, and the planting of the Christian religion. One of the most remarkable transactions in connection with this event was the appearin connection with this event was the appearance of St. Paul at Athens, and the great discourse delivered by him from "the midst of Mars Hill" to the assembled philosophers and citizens there. This great teacher of the Christian faith was familiar with letters and philosophy by his early education at Tarsus, which almost rivalled Athens, as a centre of Greek learning and eloquence. He visited Athens probably about the middle of the 1st century of our era. Walking in the agora like any other *

stranger, he met with some of the philosophers and men of letters who daily haunted that busy centre of Athenian life. According to the cus-tom of the place and the men, they fell into a discussion, in which the apostle, in his earnest and impressive manner, advanced the new doc-trines, which it was the business of his life to diffuse. They were chiefly Stoles and Epicureans whom he encountered, because the stos, the resort of the former, was in the agora; and the gardens of Epicurus, the haunt of the latter, were not far off on the bank of the Ilissus. academy was distant a mile and a half north of the city, and the lycoum was at a considerable distance east, so that the Academics and Peri-patetics, with whose doctrines he would most have sympathized, were not, at least in any considerable numbers, present at the conversation. Yet the cultivated persons whom the apostle met were evidently much impressed by the novelty of St. Paul's doctrines, and the solemn earn-They courteously invited ness of the man. him to ascend the Areopagus, where he might speak more at length, and where they, sitting at ease and beyond the noise and bustle of the agora, might more conveniently hear him. The Areopagus was the most sacred and venerable spot in the city. The legendary associations of the heroic age, and of the most ancient religion, clustered around it. Here was the seat of oldest and most venerable court, the members of which were citizens who had blamelessly discharged the highest functions of the state. At its south-eastern angle was a dark and solemn cavern, near which stood a revered temple of the Eumenides, on the spot where Œdipus was mysteriously taken from sight, after a life of unequalled woe, foredoomed by fate. It was up this sacred height that the great apostle was taken by the Athenian scholars and sages, and on that revered summit, surrounded by the magnificence of Athens, and under the soft blue sky, which looked down upon the scene with its smiling screnity, that he delivered that memo-rable discourse, in which he showed the gener-ous courtesy of the gentleman, the highest gifts of the orator, and the unshaken fidelity of the servant of Christ. We can form some judg-ment of its grand and impressive character from the masterly sketch in the 17th chapter of the Acts, and from the fact there recorded, that among the immediate converts to the fervid and bold eloquence and irresistible logic of the Christian orator, was one of the foremost citi-zens of Athens, Dionysius the Arcopagite. The discourse made its mark outside the religious circles. The candid and accomplished Longinus, born in the 3d century at Athens, a follower and teacher of the Platonic philosophy—so learned that he was called a living library and walking museum-a man also experienced in affairs—having been the confidential adviser and friend of Zenobia the queen of Palmyrs— a writer whose elegant work on "Sublimity" is still one of the best manuals of criticism—a scholar, familiar not only with Pagan, but with

Jewish, and probably with whatever 0 literature existed in his day,—and perh sonally acquainted with the principal (teachers who were his contemporari this remarkable language, in a fragmen of his critical treatises: "The growin of Hellenic genius and eloquence is to in Demosthenes, Lysias, Æschines, in Timarchus, Isocrates, Xenophon—to would add Paul of Tarsus, one of founders of an unproved doctrine." was not a Christian, as the last word extract show; but he was a man of temper, and a comprehensive spirit, guage shows that the discourse of St. become one of the great traditions of eloquence, and that Longinus regard worthy to stand on a level with the g ters of the Bema. The scene of preaching on the Arcopagus was also c istic of the tone and temper of the c The Emperor Hadrian, Athens, part of the 2d century, was a deve of Greek art and literature. Athen special object of his beneficence. He fit temple of Olympian Zeus; established library; built a pantheon and gymna arch which he constructed is still stan the north-east angle of the Olympicum, scription which claims the south-easter of the city as the city of Adrian is st as well as that on the side toward th which recognizes all that part as "At city of Theseus." In the same century a native of Marathon, and surnamed man of learning, eloquence, and vast educated by the best masters of Ath guished himself, not only as a teach Roman youth—numbering among I Marcus Aurelius himself—but by the ditions he made to the splendors of the his choice. He lined the enormous Lycurgus, in the south-east quarter of with marble seats for the whole popu Athens. He built at the south the Acropolis the theatre which bears of his wife Regilla. He left m works, but time has swept them all as sparing the monument which has name of his wife from oblivion. The Marcus Aurelius increased the num Athenian schools and the salaries of ers. When Pansanias visited Athe period—about the middle of the 2d the city must, externally, have most magnificent appearance. It ful, minute, though somewhat dry we are indebted for most of our what ancient Athens was. what ancient Athens was. He as when its public buildings were un time, and had not as yet fallen und of the spoiler. The works of the which occupied the Acropolis, the temples, and the streets, were sta The statue of Athens Promaches at guard the citadel; Harm

to the Acrop The eponyn and the bro reminded the adorned the of Demosthenes er and the citizen tempored the er and the citizen of the great days of Attentian patriotism and the great days of Attentian, the historian, a little the great days of the enumeration of the wonders of Attents with the exclamation: "All and even be mentioned, the Attents was and by the gods, and by ancestral heroes;" Aristides, the rhetorician, in the time the Antonines, said: "The greatness of the greatness of t city and its plendor correspond with its in other respects, and with the great are of the inhabitants. Art here vies with A pure and mild sky encompasses the Of art it is difficult to select the t. Here are the largest and most beautiful ples; here are the noblest statues, both old l new. Were we to cast aside its ancient reown its trophies by land and by sea, its orators and heroes, and all the achievements with the long period of its extence, still the objects we see before us now the world." So the city remained for many About the middle of the 3d century the the, crossing the Hellespont and Ægæan, de-ended upon Attica. Athens made a brave dece under the inspiration of the scholar and losopher Dexippus. He addressed the citis in an eloquent harangue, a part of which the hear preserved. "I am resolved," said the true philosopher, "to share your fate in fighter that through me, the glory of Athere he shilled. It becomes us to remark the deads of our fathous to show a remark. ber the deeds of our fathers; to show ournumber the deeds of our fathers; to show our-neives as an example of bravery and freedom to the other Greeks, and to secure to ourselves in the present and future generations the im-perishable renown of having proved by our actions, that the courage of the Athenians re-mains unbroken, even in adversity. We march to battle to defend our children and all we hold anost dear. May the gods be our support Athens suffered somewhat at the hands of the arbariana, but they were driven at length tu-ultmonsly out of Attica. It is related by Zos that one of the Gothic chiefs, finding a party of his soldiers on the point of burning the thraines of Athens, having collected the books in spile, told them to leave those things to the command of the moothness of the papyrus would feebly grap the brand of the warrior. In A. D. 258, the brand of the warrior. In A. D. 258, a few years before the arrival of the Goths, the walls, which had been in a ruinous condition since the siege of Sylla, were repaired by Valerian. In A. D. 396, Alaric came down, like a storm, from the North, ravaging fields and plundering towns on the way. He advanced upon Athens, eager to capture the city and rob the temples. But he was disappointed. Either the fortifications were too strong or he was too impetuous to submit to the slow prowas too impetuous to submit to the slow pro-

rees of a siege. At all events, instead of as-sulting the city, he accepted the hospitalities santing the city, he accepted the hospitalities of the magistrates, and retired loaded with gifts, leaving Athens and Attica unharmed. A tradition is recorded by Zosimus, a writer of the 5th century, that as Alaric advanced with his barbarian host, he beheld Athena Promachos marching along the walls of the Acropolis, completely armed, as she was represented in the statue of Phidias, and by her side the hero Achilles such as Homes describes him when hyperles, such as Homer describes him when burning to avenge the death of Patroclus. Alaric, frightened by the sight, abstained from assaulting the city, and sent in heralds with propositions of peace. This curious story may be so far founded in fact, that to the supering the cit stitious mind of the ignorant barbarian, armed and lofty figure of the goddess appeared like the goddess herself guarding her own citadel. It shows at least that the statue was standing in the 5th century. We have seen that Christianity was preached in Athens by St. Paul, and that converts were gained among the highest classes. We have few details, but it seems probable that the new religion found adherents among thinking men there, from that time forward. The rites of the ancient religion were, however, publicly celebrated for a considerable time after Christianity had ascended the throne in the person of Constantine the Great. The schools of philosophy continued down to the reign of Justinian, in the 6th century. tury. Athenian learning and Athenian taste were still celebrated all over the world, and Athens continued to be the resort of students of every rank and condition, both pagan and Christian. The early years of the emperor Julian were studiously passed in Athens. In his letter to the Athenians on quitting their city, he exclaims: "What fountains of tears did I shed, what lamentations did I utter, stretching my hands up toward the Acropolis, when I invoked and supplicated Athena to save and not to abandon her servant." Gregory of Nazianzus, the great Christian orator, was one of the fel-low-students and friends of Julian, though aflow-students and friends of Julian, though afterward, when the latter apostatized from Christianity, he became a bitter and very able opponent. But Gregory and Basil, as well as Julian, delighted in their residence at Athens. They, with other young men of congenial tastes, formed a society, which was bound together by the common ties of literary pursuits, Christian faith, and devotion to a Christian life. "The day of our departure," says the former, "and all the circumstances of our departure, arrived—the farewell words, the attendance to our the farewell words, the attendance to our ships, the last messages, the lamentations, em-braces, tears. Nothing is so painful as for friends to be severed from Athens, and from each other. Our companions, and some of the professors, surrounded us and entreated that we would desist from our purpose. With Basil it was ineffectual, and he departed; while I, who felt myself torn asunder by the separation, speedily followed him." The passion of

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Gregory for Athens was so strong that he de-lighted in being called Philathenseus. In the 5th century Athens was deprived of some of her treasures of art. Many pictures were taken by the proconsul from the Stoa Poikile-among the rest the paintings of Polygnotus, represent-ing the capture of Troy, and the battle of Mar-athon. The great statue of Athena Pro-machos probably disappeared in this century. Synesius, in one of his epistles, speaking of his intended journey to Athens, makes a sarcastic allusion to these transactions. The letter is curious also as exhibiting the regard in which Athenian culture was still held. "I shall not only," writes he, "derive this benefit from my journey to Athens, to be freed from my present troubles, but I shall no longer be compelled to worship for their learning, those who come from thence, and who are in no respect superior to us common mortals; certainly not, in com-prehending Aristotle and Plato. They move about among us like demigods among mules, because they have seen the academy, the lym, the painted stos, in which Zeno philosophised—now the painted stoa no longer; for the proconsul took away their panels, and put an end to their philosophic pride." Other pas-enges in his letters show in what esteem the arts end handicrafts of Athens were held in other cities, especially Alexandria. In this same century, the beautiful Athenais, daughter of the Athenian philosopher Leontius, became a Christian, was baptized at Constantinople une name of Eudocia, married the emperor Theodosius II., and did much by the influence of her example, and by building churches, to promote Christianity in Athens, the local gov-erament having recently authorized, by direction of an imperial rescript, the public recogni-tion of Christianity there. It appears that orders were given from Constantinople to deappears that stroy the pagan temples. Gregory declared against the injurious influence of the idols, which, according to him, more abounded there than elsewhere in Greece. The edicts of the emperors were not carried into execution, and many of the temples were saved by being converted into Christian churches. temple of Olympian Zeus was consecrated to Christ the Savior, the Parthenon to the Holy Wisdom (St. Sophia), afterward changing the designation to the Panagia, and the Mother of God, the temple of Theseus to St. George of Cappadocia. Justinian, in the early part of the 6th century, withdrew the salaries from the public teachers in Athens, and prohibited instruction in withdrawn and prohibited instruction in philosophy, partly because the schools were antagonistic to Christianity, and partly to devote the money thus saved to embellishment of the capital, and the building of the church of St. Sophia. From this time forward Athens sank into the position of an obscure provincial town, and her name is seldom mentioned by the historians occupied with the eastern empire. We scarcely hear of the city for nearly 4 centuries. The

inhabitants doubtless led a p more ambitious spirits seeking their the imperial court of Constanting thenism entirely died out; Christiani complicated forms and liturgies of church, took its place. The city wa church, took its place. with numerous small churches, built culiar style of architecture called and probably some of the materials were taken from the ancient structur 12th century we hear of Athens b and plundered by Roger, king of Si devastations of other parts of Gree severe blow to the prosperity whi to have been silently advancing for The 4th crusade again brought the Athens to the notice of Europe. parcelled out among the Frankish p the capture of Constantinople in I de la Roche was made duke of Athe and 4 successors of his family held dom until 1808. Walter de Brienne He was overthrown by the Grand C pany, whose aid he had invoked. pany, whose aid he had invoked the Sicilian branch of the house of invested with the dignity by the G in this line the dukedom remained Six dukes of the Florentine family of ruled Athens from A. D. 1386 The ducal court of Athens was one brilliant in Europe. The title of Athens became familiar in the pos mantic literature of the West. Demante literature of the West. D temporary of Guy II. and Walter calls Theseus il duca & Atens. O him, also, the duke of Athens. in the age of Queen Elizabeth, Sha troduced the title in the "Midsum Dream," where Theseus, the conlover of Hippolyta, figures again Athens. Muntaner, the quaint chronicler, declares that the Frank Greece was second to none in that the French language was spoke Athens as at Paris. The Parthens secrated to the Blessed Virgin, and of the Roman church was celebrat within its walls. The ducal palan near the Propylea, where the revel ties of the court drew together th knights of Europe, and the honor-was once conferred in the temp Tilts and tournaments were held plain, and the feudal system plain, and the fendal system we posed upon the people. But the caste, living among a conquer whom they had no sympathilanguage, and a hastile creed. of Turkish conquest swept over fell before it, and disappeared, rials now remain of this chivalr the history of Athens. On the the history of Athens. On the on the right of the entrance; bling monastery of Daphne, v site of an ancient temple of

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ins thrown car h rubbish, and a fear-de-lis carv water; and praises the Athe-In another letter, written in s the clive groves watered by the spot, of the 1 , he tne Cepl the Cepl and the Ilissus, and yielding a large revenue, by the sale of oil at Constantinople and other cities, to the cultivators. From a letter of Cabasilas, another Greek, it appears that the Acropolis was occupied by Turks, and the the cities of the control in ed by 1 16 ve be ша The humber d II., Athens appe andly prosperous condition. The humber is inhabitants is said to have exceeded to the conqueror. He visited it in on, gazed with admiration upon its still exthat the Acropolis was occupied by Turks, and that the city was chiefly inhabited by Christians, the number of whom amounted to nearly 40,000, many families having left the city at the time of its second capture by the sultan. In A. D. 1675, Athens was visited by Wheeler and Spohn, the former an Englishman and the wonders, granted important privileges to abbitants, placed its government in the s of a high officer of his household, which ed it from the exactions and oppressions to latter a Frenchman. Both published accounts of their travels, and both represent the condition of the city, and the intelligent character of hich other conquered cities and states were min other conquered cities and states were applied by the agas and pashas who were applied to govern them. Having placed a garrison in the Acropolis, and exhibited many tokens of his good will, he took leave of the Athenians, and marched into Peloponnesus. In A. D. 1459, the sultan returned to Athens, and established himself in the quarter now called Patiesia. It was at this time that the Parthenon tion of the city, and the intelligent character of the inhabitants, on the whole in a favorable light. In A. D. 1687, Morosini, the Venetian admiral, having gained brilliant victories in the war be-tween the republic and Turkey, suddenly ap-peared in the Pirseus. The Athenians seized the opportunity to send a deputation of their chief citizens giving him to understand that they earnestly desired to free themselves from the Turks. sconverted into a mosque, and the Moslem strices were performed. In 1467, the Vene-tins went to war with the Turks, and invading freeze with a powerful fleet, landed at Pirsus, and expelled the Turks from Athens, after a The admiral immediately invested the Acropolis, planting his batteries on the Museum, the Pnyx, the Areopagus, and on the eastern side of the Acropolis. The Turks had fortified Athens remained under the battle. the hardyons. The furs had forthed themselves as well as the suddenness of the attack and their limited means would permit. They had demolished the exquisite little temple of the Wingless Victory, and used the marble blocks in the construction of a bastion below Venetians until 1470, when the sultan entered Greece with a large army, and retook Athens. He made some changes in the administration of the local government, which he had hither-te left in the hands of native magistrates, only the payment of an annual tribute to the Porte. He now resolved to place Athens the awaywode who, however, held his office from the chief cunuch of the harem. The exthe Propyless, where they remained undiscover-ed until 1836. They had deposited a quantity of powder and other munitions of war in the Parthenon. This was made known to the be-The external affairs of the city were managed by the waywode; a cadi, or judge, decided the con-troversies between the Ottomans, without insiegers by a deserter, and an able engineer succeeded, on the night of Sept. 26, in throwing a bomb directly into the magazine, and a formidable explosion immediately followed, causing more damage to that incomparable structure, refering in those of the Christians. The garon on the Acropolis was under the command the Turkish Disdar. The proper municipal than time and barbarian ravages had accomplished for 20 centuries. The Turks surrendered on Oct. 4, and were allowed 5 days for their departure with their wives and children. Three thousand went away; but seconding to Sir Paul Rycault, 800 Turks chose its of the city were managed by magistrates ceted from the principal families, by the peo-ceted from the principal families, by the peo-ceted, and called by the ancient name of archons. The second rearry all affairs, civil and allocations, judicial and spiritual, and their manufactures of the property of the people without isions were accepted by the people without to abjure Moslemism rather than quit Athens, surmur. In disputes between Turks and istians, the archons interposed in the first inuse as peacemakers; but if they failed to bring
mean adjustment, an appeal lay to the cadi, and
mean him to the grand vizier. This form of adand being baptized, were received into the Catholic Church. Morosini and his officers, to-gether with the Athenians, commemorated the liberation of Athens by religious services, and consecrated the most beautiful church in the city to St. Dionysius the Areopagite, the tration remained unchanged from 1470 to surrender having taken place on that saint's day. But an epidemic sickness, and a fresh muster of the Turks, compelled Morosini, in a few months, to withdraw from Athens. A large number of the citizens fled with such of their valuables as they could carry with them. With regard to the condition of Athens during these two centuries, we have but few and brief notices; but it appears to have been not unhappy. In 1570, Zagomalas, a native of Mamplia, in a letter to Martin Kraus (Crusys), a German professor at Tübingen, and author of a work entitled Turco-Gracia, says that he has eften visited Athens and examined its curiosities; describes the substity of the six and the their valuables as they could carry with them; some to Salamia, Ægina, and other islands; some to Corinth, some to Nauplia, and others to Cephalonia, where a village now bears the name e; describes the salubrity of the air, and the

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of Athenia, still inhabited by their descendants. These events occurred in March, 1688. The city remained deserted until the following year, when the Turks entered it and committed a large part of the houses to the flames. The Athenians, however, began gradually to return. The sultan granted them a free pardon, and remitted the tribute for 3 years. Their con-dition was eloquently and pathetically described in an address written from Salamis to the pa-triarch of Constantinople, in 1690. Hardly had the Athenians returned to their native city, when they began to give their attention to ed-nostion. Gregorius Soteres, afterward metroneation. Gregorius Soteres, afterward metropolitan of Monembasia, established at his own
expense a Hellonic school. Johannes Lekas established another, in which he supported 12
pupils at his own expense, having deposited in
the treasury of the Venetian republic the requisite funds, which were lost by the downfall
of that government, in 1797. Both schools
were afterward supported at the public expense,
until 1812. From 1690 to 1754, the Athenians
Rwad quietly, under a political organization d quietly, under a political organization entially the same as we have already described. In a memoir written by a distinguished teacher, Johannes Benizelos, and published by Christophoros Perrhaebos, in his history of Souli, it is said, of this period: "Athens, although under the Ottoman yoke, was in a flour-ishing condition, and might be held up as an example to the other cities of Greece. her good fortune to have her affairs wisely ad-ministered by honorable citizens, under a kind ministered by honorable citizens, under a kind
of aristocracy, bearing the ancient title of archons." He then gives in detail, the mode in
which the government was carried on; their
relations with the waywode and the sultan; relations with the waywode and the sultan; the rates of taxation, and other interesting particulars. Between 1754 and 1777, Athens was frequently harassed by the Albanian incursions. In the latter year, a battle was fought at Calandria, near Athens, by the Athenian Turks and Greeks, under the waywode, named Chasekes, against these barbarians, commanded by the Deli Pasha, and a decisive victory gained. This event put a stop, for the time, to hostile incursions. In 1778 Chasekes fortified Athens with a wall using materials taken from many of the a wall, using materials taken from many of the ancient structures. The conduct of Chasekes gained him so much popularity, that his reappointment was solicited and obtained of the Porte, and finally he was appointed waywood for life. Having secured his end, he threw off the mask, and showed himself to be a grasping and tyrannical man. The tide of popular feeling turned against him, he was banished; but by intrigue and bribery he was again restored. The contest continued 22 years, during which the game was repeated 5 times; and finally, in a wall, using materials taken from many of the the game was repeated 5 times; and finally, in 1795, he was behended in Cos, the place of his exile. In this period the prosperity of Athens declined. Her population and wealth greatly diminished. A pestilence ravaged the city in 1789 and again in 1792. About 1,200 perished in the former, and 1,000 in the latter.—We have

now arrived at the period, when the for national regeneration commences Greeks. Toward the end of the l and the beginning of the present, a revival took place in the intellects of the Greeks. Members of Fanario of the Greeks. Members of Fanario Constantinople, wealthy merchants cipal cities of Europe—the Rhalles ades—helped by their liberal coatr growing arder of the Hellenic race and education. Literature lent it kindling enthusiasm. The lyric sang the Thessalian, thrilled the heart tion; and the elegant and animate Coraës to the glorious memories. Coraës to the glorious memories history, and to the noblest sentimes ism, nerved his countrymen to day tremity of fortune to regain their dependence. Athens shared in the citement. The society called the braced the leading Greeks where New schools were established at A expense of patriotic citizens, and were sent to the universities of wes Among the distinguished Athenia to this period, may be enumerate the distinguished teacher, whose Athens has been already referred died in 1806; Koubelanos, teache Marmarotoures, teacher, d. 1817; magistrate, d. 1818; Triantophylli tic, d. 1821 (beheaded by the Tur-kes, d. 1821; Philippides, d. 1821; d. 1821; Kapetanakes, magistrat Chomatianos, English consul, d. 1 bishop of Edessa, d. 1822; Mass Skouzes, d. 1823; Petrakes, teach Kodrikas, d. at Paris, 1827; Z 1828; Angelides, d. 1829; Staore toures, d. 1832; Galanos, d. in India distinguished men of Athens who the national movements, are still various departments of the public war of independence commenced fortunes of Athens were variously a the 7 years of its continuance. having commenced elsewhere, in a few weeks. The Turks weeks. The Turks ret Acropolis, the city was taken postandard of liberty was raised and the garrison was closely best tragical scenes were enacted in months. The garrison was reli-and the Greek troops compelled the Turks, under Omer Pasha, Bri Bey. Many of the inhabitants Bey. Many or the innactions the city ravaged, plundered, and of the Athenians fied to Salamis some of them joined the troops of the isthmus of Corinth. In St. Pasha retired from Athens with of his forces, and his Deli Pashs. of his forces, and his Deli Pashs, with the remainder. The Acre left in the hands of the reside Athenians, returning from their besieged them. The Turks ha

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revisions. A good deal of hard place between the besiegers and The Turks having undergone the is sufferings, chiefly from want of ly surrendered, and the Greeks ir standard on the Acropolis, June The number of Turks who capitula-O. Before they could be conveyed after, unfortunately for the good Greeks, a rumor of a new invasion with the city, and caused such alarm I upon the Turks, and put to death violation of the terms of the surrenperished by an epidemic disease, and 550 were transported safely to Asia ntime dissensions broke out among Athens, and Ypselantes, Niketas, n, called in by the contending par-l at Athens in August. As they mind upon the matter, Odysseus to dispose of the command of the his subordinate Gouras, he himself nade military dictator of eastern Feb. 16, 1823, the city of Athens by the festivities in honor of the Gouras with the daughter of a dismily of Lidoriki. A popular move-t his government was put down by were measures, and a sudden rumor rks were on the march for Athens lay the discontents by a sense of the gar. Gourss collected in the Acropprovisions he could lay hands on; a having killed a few peasants in the id, taken prisoners a number of wo-tthered the ripening grapes in the fithdrew from Attica. In 1894 Odysl into traitorous compact with the commenced a series of hostile demagainst Athens. Gouras, command Mysseus, perhaps already repenting p he had taken, and not willing to indelety of the Turks, surrendered He was sent to Athens and confinement in the old tower on the Propyless. On June 18 his muti-lies body was found below, he hav-been put to death with the consent inself. Karaiskakes, who had been elf. Karaiskakes, who had been engaged in brilliant military a the north, returned to Athens, reh, 1827. In the mean time Lord ad arrived, and Gen. Church had sted generalissimo of the Hellenic ly in 1826 the Turkish forces, under ha and Omer Pasha, overran Attica. appointed commander-in-chief of ece, and was ordered to advance emy and not to await their arrival Athens. He paid no attention s of government, and by numerous motion alienated the rural population aborhood; but, though disapprovof their commander, the Greeks in sined faithful. Numerous conflicts

occurred in the neighborhood of Athens. On Aug. 8 the Turks forced their way into the city, and the Greeks retired into the Acropolis. city, and the Greeks retired into the Aurupount As Gouras was now besieged, the government appointed Karaiskakes to his place as commender of eastern Greece. One evening in October 1988 of the Commentions of tober, as Gouras was watching the operations of the enemy in one of the outworks, making the the enemy in one of the outworks, making the rounds, he was struck by a shot from the Turks, and fell instantly dead. His body was brought in silently, and in the morning was buried in front of the Parthenon, after the funeral rites of the Greek church. His wife showed herself, on this occasion, worthy to be the companion of a hero. "Why do you weep?" said she, to the soldiers, as she saw them shedding tears. "You have caused his death by your attempts to desert. have caused his death by your attempts to desert. If your consciences reproach you as the authors of my widowhood, change your conduct, and do not slay his wife also by desertion." The sol-diers, overcome by her words, took an oath upon the Gospel and the picture of Christ to maintain their fidelity to the wife of their commander, and they kept the oath. Shortly afterward er, and they kept the oath. Shorty about wall his family perished, with a considerable number of Athenian women, beneath the ruins of a hottaged down by the art of the Erechtheum, battered down by the besiegers' artillery. The garrison was reduced to great distress, and several daring attempts were made to relieve them. This is not the place to narrate the thrilling events of the flerce strug-gles in the plain of Athens. On May 4, Kales in the plain of Athens. On May 4, Ka-aiskakes rose from a sick bed, as he heard the raiskakes rose from a sick bed, as he neard the firing in a skirmish, sprang upon his horse, and galloped into the midst of the fray. He was borne mortally wounded from the field. He passed the last hours of his life in conversing with the assembled chiefs on the condition of the country. Just before he drew his last the country. breath he said to those around him, among whom were Lord Cochrane and Gen. Church: "My country laid upon me a heavy task. I have fulfilled my duty by 10 months of terrible battles. Nothing remained but my life. This I owed to my country; this I surrender to m country. I am dying; let my fellow-soldier country. I am dying; let my fellow-soldiers finish my work; let them save my Athens."
On May 6 a bloody and decisive battle was fought. Lord Cochrane boasted that he would dine on the Acropolis; but the boast was vain. Coch-The rout of the Greeks was complete. rane and Church were compelled to seek refuge on board their ships. The posts in the neigh-borhood of Piræus were abandoned, and 1,500 of the flower of the Greek warriors the field; many of the bravest of the leaders fell; others were taken prisoners, and 240 of them were beheaded by the Turks the following morning. Some ineffectual attempts were afterward made to relieve the garrison. The cita-del, however, was compelled to surrender on June 5. More than 2,000 men and 500 women were marched down from the Acropolis, and transported to Salamis, Ægina, and Poros. Thus, after a siege of 11 months, Athens was replaced under Turkish domination. About About

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3,000 Greeks and as many Turks had perished in the siege. Athens remained in the possession of the Turks long after hostilities had been ended by the intervention of the great powers, and was not restored to the Greeks until 1832. buring these last years almost all the modern buildings of the city had been demolished. Scarcely a private dwelling was uninjured, and Athens was a pile of ruins. The noble remains of antiquity shared in the general calamity. The repeated bombardments of the Aeropolis left their marks upon the Propylea, the Parthenon, and the Erectheum, and to this day the broken edges of the rich brown columns, where the original glimmer of the marble is seen, bear ritness to the effects of the cannon balls which did the mischief. Human bones, and rusty balls, and fragments of bomb-shells, are found among the masses of broken marble, with which the surface of the Acropolis is strewn. The American missionaries, Dr. Hill and Dr. King, were among the earliest to plant themselves among the melancholy ruins of the city. They gathered a school of forlorn children and vigorously began to reconstruct the edifice of Christian civilization. Capo d'Istrias, the President of Greece, was assassinated in 1831. On Aug. 8, 1832, Otho, the second son of the king of Bavaria, who had been selected by the great powers, Eng-land, France, and Russia, was solemnly proclaimed king at Nauplia. He arrived in February, 1833. The king, only 17 years old when he was chosen, attained his majority, which was fixed at 20, in 1835. In that year the seat of government was transferred from Nauplia to Athens, and from this date recommences the history of Athens as the centre of civilization in that the control of the In 1836 Otho was married to Amelia, a princess of the house of Oldenburg, one of the most beautiful women in Europe. The king and his beautiful women in Europe. centre of civilization in that quarter of the world. beautiful women in Europe. The king and his lovely queen arrived in the Pirmus, Feb. 14, 1837. The next day they entered Athens, under triumphal arches, decorated with laurel and myrtle wreaths, by the children of the American missionary school, and amidst the enthusiastic acclamations of the people. The city was rapidly rebuilt, and the population in-creased. The presence of the court and the foreign embassies, quickly created the appearance of active business and renewing prosperity.— In 1843, Athens was the scene of a remarkable revolution, by which a great political change was effected, without shedding a single drop of blood. The Greeks expected to be governed by a constitutional monarchy. But the treaty which placed Otho on the throne, contained no stipulation upon this point; and it did not enter into the plans of the regency which accom-panied the young king, to grant a constitution to the people. On attaining his majority, the king took no step in that direction, but gove the country through a ministry and council of state. The people were disappointed and im-patient; and their impatience reached its height in 1843. Gen. Kalerges, then in charge of the troops quartered in Athens, supported also

by the great body of the citizens, the palace in the night of Sept. I manded a national assembly for the of a constitution. No personal dis shown to the king and queen, was firmly maintained. At 1 At length was firmly maintained. At length nances were signed, by the advice of members of the council of state, at was Gen. Church. A new minist pointed, and a national assembly The troops returned to their barrac zens to their homes; the business was not interrupted for an hour, an sat as if nothing had happened. violence dishonored the proceedings night the city was illuminated, was added to the national h king and queen were cheered when out as usual, on the following day. tions for the national assembly conducted, and resulted in the clubest men throughout the country, ed of 225 members. They met N chose for their president Mr. Panoras, a member from Corinth, where the country is the country of the country. years old, and 4 vice-presidents, datos, Metaxas, Collettes, and Lor immediately commenced their lab constitution which they framed accepted March 16, 1844. This con cures all the great political and p of the citizens, the equality of the fore the law, religious freedom, the press, popular instruction at I the state, the inviolability of let-tion from arbitrary arrest, trial independence of the judiciary. The power is distributed between the letof representatives chosen by the years, and a senate appointed by life. The ministers are appointed but subject to impeachment for m office. Many other provisions are this instrument, which cannot be in this brief sketch. The counts governed under this constitution of its adoption to the present. vanced in wealth and population present number of inhabitants 30,000; but it is in a fair way to of its lost prominence among the world. Wealthy Greeks are be handsome houses in the eastern Wherever the calls town. Wherever the calls of placed them, they regard Atha as the capital of the Hellenie tion it would be difficult to which has done so much. If free schools, well graded with 2 thoroughly organized admirable university, with 4 600 students. It is organized German plan, by the establish ties of philosophy, law, media Nothing can exceed the intelleyoung men, in the several deput town. young men, in the se

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s are daily crowded. brary now contains some 90,000 Volumes, although the university stablished so recently as 1836. as free as that of London or New nber of books issued by the pubis imprecedented. The educa-is amply provided for. Beside the is, and the justly celebrated estab-Dr. Hill, the American missionn excellent institution called the sion (school for young women), eral supervision of Madame Manos, exander Mavrocordatos, a lady of exander Mavrocordatos, a lady of theracter, as well as the highest n. It is partly supported by the friends of education (Erappa ap), which was established in usen is the special patronesss of its leading object is the education as to be teachers; but scholars be general education. The regular br general education. The regu-study extends through 5 years, story, Christian ethics, ancient and k, writing, drawing, arithmetic, trumental music, domestic econowho intend to be teachers are the methods, and trained in the seching. A diploma is given to ave passed satisfactorily through etical arts. ribed examinations. The future supported at the expense of the so-government. In return for this, w the obligation to teach 4 years, agdom of Greece, in any school to inister of instruction may appoint ey fail to keep this condition, they the same rate with the other es having been given when they il. The annual examinations are ooL only by the committee of the soy their majesties the king and sembers of the cabinet, the promiversity, the most eminent of dother distinguished personages, the chairman announces the retributes the diplomas. Among in the gymnasia and the uni-Among teachers in the schools, there and women who would do e profession in any country in We have already spoken of the adame Manos. Her associates are accomplished persons. Among the teach in the common schools are self-sacrificing zeal and consciena are contributing powerfully to intellectual improvement of the ion. Of the professors in the uni-sek from personal knowledge when the venerable Asopios—the friend corary of the German Wolf—ex-ar with the life and fire of another plectures of Philippos Johannis on ophy are admirable for purity of

tyle and ole arness of method. Alexander Rizos style and clearness of method. Alexander Riscs Rangabes, now holding, in addition to his professorship, a position in the cabinet as minister of foreign affairs, discourses upon the fine arts with acuteness, learning, and taste. Manouses lectures eloquently on history, amidst the applauses of a crowded audience. Pericles Argyropoulos, lately also a member of the cabinet, as minister of feligion and public instruction, is a most able and distinguished professor of the law. Professor Kontogones, who has already been mentioned in connection with the Parthebeen mentioned in connection with the Parthe nagogeion, is profoundly versed in the Hebrew and Greek Scriptures, and draws to his lecture-room numerous and attentive classes. Professor Paparrhegopoulos lectures on the history of the Hellenic race, with elegance and spirit, and is, beside, a writer of classical purity of style. Nor are these the only members of the professional body who are entitled to the admiration and gratitude of their countrymen, but we have no room to mention more. The institutes for education are chiests of pride and tutes for education are objects of pride and favor to the Greeks in other countries. Large contributions are made for their support, from all quarters. Half a million of france have been lately given by a wealthy Greek, to found an academy of arts and sciences. Very recentbeen lately given by a wealthy Greek, to found an academy of arts and sciences. Very recently, another Greek, named Platygenes, a native of Thessaly, bequeathed 200,000 fr.—\$40,000—to the university, and, about the same time, a knife-grinder, who died leaving 600 drachmas—\$100—accumulated from his scanty earnings, bequeathed 100° dr. to the university. The library is constantly receiving gifts from Greeks in other countries, and is rapidly increasing, almost exclusively from these sources. The Greeks are beginning to excel in the fine The Greeks are beginning to excel in the fine arts. Hitherto, in modern times, art has not emancipated itself from the mechanical formalism of the Byzantine school, or, to speak more correctly, the school of Mt. Athos. Pictures, painted according to precise directions laid down in a recently discovered manual called Έρμηνεια της Ζωγραφικης, containing the tra-ditional rules of the art from the 10th and 11th centuries, have constituted the sum and sub-stance of Hellenic Christian art. A school of the arts has been established in Athens, with good promise of success. Prizes for sculpt and painting have been founded by a wealthy citizen, Mr. Contostavlos, known in this country as one of the Greek agents sent by the revolutionary government on the business of the Greek frigates. These prizes are the subject of an annual competition. At the exhibition of 1856, the prize was awarded for subjects seof 1856, the prize was awarded for subjects se-lected by the queen: for sculpture, a shepherd; for a picture, a child at prayer. Two brothers, named Phytalis, divided the prize for sculpture, being adjudged by the committee equal in merit. A French artist, a member of the com-mission, said: "These statues, if exhibited at Paris, would better sustain the cause of Greece than the arguments of your most brilliant de-fenders." An archeological society has been

established in Athens for many years. It is under the editorial management of Mr. Pit-takes, the conservator of antiquities. Many valuable contributions, both in the way of newly discovered facts in archeology, and original contributions by the scholars of Athens, have appeared in its pages. A society of medicine, and one of natural history, also have been some time in operation, and are doing a good work. A literary periodical, published semi-monthly, bearing the name of the "Pandora," is a very interesting and able magazine, containing original interesting and able magazine, containing original tales, poems, reviews, and the like, and is the organ of many of the most learned men in Athens. Among the remarkable literary institutions of Athens may also be mentioned the annual competition for the prize of poetry, founded 7 years ago by Ambrosios Rhalles, a Greek merchant at Trieste. It is celebrated on April 6 (March 96) the appropriate of the open-April 6 (March 26), the anniversary of the open-ing of the Greek revolution. After the religious vices in the cathedral a brilliant assembly is held in the university to hear the result of the competition. The prize is awarded by a committee of the professors of the university, one of whom reads the report. In 1856 the report was drawn by Philippos Johannis. He gave a aketch of the competitions of previous years, and stated that the number of the pieces piece offered had regularly increased since the first establishment of the prize. That year there were 14 in all, which the committee divided into 3 classes: 1, good for nothing; 2, respectable; 3, excellent. Of the first class there were 5; of the second, 3; of the third, or excellent, 6. To show the faithful manner in which the 6. To show the faithful manner in which the duty of examination was performed, it should be said that the discourse of the professor was very elaborate, containing criticisms upon the several pieces, with extracts from them, and occupying more than an hour in the reading. Of the first class he said, "The invention displayed in them is very poor, the arrangement and distribution entirely defective, the conceptions are commonplace, and many of them false. The le is not only low and feeble, but, in 3 of turn full even of granuical errors." The of research services with equal freedom and read the said. OSS ATO (equal freedom) 20 cellence that use fessors, were between them. other, a poem on the a drama in 5 acts, on the opatres, a heroine of the F tioned in the chronicle of these scenes also quite charact When the Crimean war broke lively sensation in the capital. ble for the Greeks of Greece not to with the movements of the Gre who thought the long-expected of come to strike anoth ndence. The movparts of Greece were

and French y of co of occupation stati In Oct. 1854, ti around At scourge, the Asiatic cholera, appe ens and made dreadful ravages as ulation. Among the victims was viving son of the "Maid of Ath promising young man of 18, beariname of Aristoteles. Many hund Many bond thousands who could escape fled to in the neighborhood and the r usual, crimes were dreadfully n details of the thefts and robb the midst of suffering and confus tions of the dealers and mon frauds in weights and measures; it tion of provisions, bring up in men-tures the terrible picture of the Athens, drawn in such dark colors ides. Chrysanthos Konophaca, e chief ecclesiastical dignitaries, addre chief ecclesiastical dignitaries, adding people an earnest exhortation through lic press. It was published in the Dec. 8, and presented a faithful result he sins of the people, with urgent repent and cast themselves on the it cy of God. The same paper cost description of the scene by an eye-ter anymerating the most conscious. ter enumerating the most conspic ter enumerating the most conspicuous time—professors, physicians, studies men—he says, "The sun himself! over the ridge of Hymettus, and the overcast with motionless clouds; seems to be in a stupor; not a less agreeable and suffocating heat is in phere; the very birds fiee from the King Otho and Queen Amelia, ti the foreign powers, the public pl hundred good citizens, alone res sick, dying, or dead. The city of capital of the East—appears like peli, in whose streets men once shop shope, magazines, stores, coffee windows of the houses, are clos ple that still remained alive, with and flowing tears, prostrated amoved, before the thrice-blessed and the Kyrie Eleison resounds morse, all out thomselves up to Most High; men, women, sell and great, followed in pa and pictures, chanting the Ku ara. Among those who streets. Bowing their faces to t remore ore in the university, a massic and Miss Pulyti were Mr. Bentl

a intellectual pursuits which reigns in mit did in ancient Athens. At pres-man have returned to their former state. rages of the cholera have been effaced. my of occupation was withdrawn from is the close of the Crimean war.
is have ceased, and the Klephts, who,
period of confusion, menaced the neighd of the city, and made it dangerous to
Mt. Pentelicus, have been suppressed. sion to Athens approaches the city either of the gulf of Corinth, or coming up sium. He passes near many spots relin history and song, whichever route he The foreland of Sunium is still crowned glittering columns of the temple of Suthens. Ægina rises picturesquely from onic gulf, and with the solemn ruins of ple of the Panhellenian Zeus, looks over to the mountains and plain of Atthe Acropolis, surmounted by the Erechand the Parthenon. Entering the har-Firmus, the remains of the old encirremind the traveller of the days of beles, whose tomb is by the wave-beat-y shore on his right. He lands on the mes rapidly through the streets of the vn, enters the plain between the mas-mistions of the Long Walls, which have nations of the Long Walls, which have
the utterly disappeared, and, with the
groves on his left, and the Cephissus
ing through them, drives in half an hour
the enters the city, having passed
to of Theseus, the best preserved of all
tims of antiquity, on his right. Two
fintense interest immediately open upon
the living Athenian people their lanthe living Athenian people, their lanstitutions, education, personal appearaners, and the wonderful monuments ining of the genius of the ancient Athe-As he walks the streets he listens to k language, not spoken as it was in the lemosthenes, but still Greek. The signs shops are in good Greek. The notices an and French steamers at the post s in good Greek, though the word for th, ατμοπλουν, would puzzle the or-would he suddenly return to earth. repapers are published in good Greek, discussing many subjects which the is in good Greek: but the freedom of ελευβερια του τυπου--would at first o intelligible idea to his mind. Over hop he would read Καπνοπωλειον, what the man could mean by selling He was a water-drinker, so that even ne of the first quality—Σαμπανια της resources—advertised on the opposite se street, would not entice him by its He would recognize the koupeiou, the shop—the centre of gossip and news cient times. The churches, with their architecture, would offend his taste, sit was by contemplating the Propylea Parthenon, to which he used to appeal

in his orations to the people of Athens;—but entering he would hear, in good ancient Greek, the liturgy of a religion, first introduced more than 3 centuries after his death, and he assuredly would find in its impressive lessons much that would be congenial to his own magnanity and would that the trailing accounts. mous spirit, and much that strikes a deeper note than even his master Plato ever sounded. He would enter the senate or the chamber of deputies. Most of the legislative discussions would be intelligible to him; but one topic would surprise him—a public loan negotiated through the ενικη τραπεζα—the national bank. Stepping into the gymnasium, he might hear his own oration on the "Crown" commented upon in excellent Greek, to classes of bright-eyed Hellenic youth, within a few minutes' walk from the spot where it was delivered; and perhaps he would be able to explain what he meant by burning the γερρα. At the καταστημα ευρωπαικων φορεματων he would be puzzled at first by the long-tailed dress-coat, the hat, the cravat, or λαιμοδετης, which he could only conjecture to be a halter. The titles of civil and ecclesiastical dignitaries would astonish him Majesty, Meyaketotys—Excellency, Efoxotys—Holiness, Oototys—All-holiness, Havottotys—the Honorable gentleman, O Evilus Kupios—the Lady of Honor, 'Η Κυρια της τιμης. In short, he would find the language substantially the same, but largely applied to ideas wholly new to him. It would take him some time to orient himself. But he would find the mountains, sky, the sparkling sea, and the unutterable beauty of the atmosphere, the same. The Agora he would find a solitude, peopled with mighty memories. Wandering up the Pnyx, that too would be solitary; but there is the place of the assemblies there stands the immortal rock—the Bema—from which he and his great predecessors addressed the Athenian Demos. Had he chanced dressed the Athenian Demos. Had he chanced to go thither, on Dec. 21, the queen's birthday, in 1858, he would have found a multitude of citizens, in holiday attire, standing in the Pnyx, and listening to a learned Greek, who discoursed from the steps of the Rame is good discoursed from the steps of the Bema in good ancient Greek, upon the preeminence of the Greek language, and of the old masters. Not one word of this would have been strange to Demosthenes. We have called up the august shade in order to illustrate briefly the changes that the language has undergone during 20 centuries, in his native city, and its identity. In another part of this article we have alluded, with more or less minuteness, to the principal structures in Athens, which were the wonder of the world in ancient times, and which are scarcely less the wonder of the world in their majestic ruins now. Demosthenes said in one of his ora-tions: "Our ancestors were inspired, not by the desire of wealth, but by the love of glory; and therefore they have left us immortal possessions, the memory of illustrious deeds, and the beauty of the works consecrated to them." As he spoke these words he had the temples, porticos, and statues of the agora around him;

above the temple of Wingless Victory—the Propylesa with the broad marble steps, the Doric porticos, the fine bronze gates opening through the marble wall, the Athena Promachos, the Parthenon, the Erechtheum, and the marble population of heroes and gods, standing in the open spaces of the Acropolis. Plutarch, 5 centuries later, says: "These works appear, at the present moment, fresh and newly wrought: they seem to wear the bloom of perpetual youth, its glow untouched by time, as if they breathed the breath of immortality, and had a soul that age could never reach." We have room only for a few remarks on the present condition of some of these ancient monuments. The soil of Athens is full of fragments of statues, columns, and other works of the ancients. Bits of the marble seats of the stadium are easily found in the rubbish below. At the 8. E. angle of the Acropolis, the outline of the Dionysiac theatre, and some of the seats hewn in the solid rock, together with portions of the massive foundations on which the stage-build ing rested, may easily be traced. Fragments of a choragic monument bearing the name of Thrasyllus, and dating 330 B. C., lie about the upper part of the concave, where an ancient cavers, once sacred to Bacchus, and now dedicated to the Panaria Similariana reminds one cated to the Panagia Speliotissa, reminds one t once of the classic and the Christian times. Numerous fragments of ancient marbles are embedded in the walls of the churches, and by the contrast of their style to the rest of the building produce a strange effect. The surface of the Acropolis is thickly strewn with pieces of marble blocks, columns, statues, and votive slabs; and in the left hand apartment of the slabs; and in the left hand apartment of the Propylea, the ancient Pinacotheca, a picture gallery, Mr. Pittakes has accumulated a large number of every species of fragment, but especially slabs with inscriptions belonging to every age, and many of them of historical importance. The Theseum is used as a museum of ancient sculptures. Many monumental stells of the most interesting character with beautiof the most interesting character, with beautiful groups in low relief, and touching funereal inscriptions, are collected there. But the most inscriptions, are collected there. But the most curious and important marbles, are a series of slabs, found (in 1834) in the Piræus, containing records of the Athenian navy; lists of ships with their names; inventories of rigging and furniture; names of shipbuilders; names of statesmen, such as Demades and Demosthenes, who were connected with the navy department, and numerous other integrating and value. ment; and numerous other interesting and valuable particulars. These inscriptions are very clearly cut, and, except where the marble has been broken, easily read; and they cover a considerable period of the public life of Demosthenes. The temple of Theseus, as we have a considerable person of the sens, as we have already stated, is one of the best preserved buildings in Greece. It is of the Doric order, 104 feet in length by 45 in breadth. It has 6 columns at each end, and 18 on each side, of 3 feet 4 inches in diameter, and 19 feet high. From the stylobate to the upper angle of the

pediment, the height is 31 feet. on the pediments are all lust. metopes are supposed to relate to the Hercules and Theseus. Of the variation Olympian Zeus, the platform on wh and 16 Corinthian columns, one of overthrown in 1852 by a hurricane, remain. The peribolus of the tem feet long, and 463 broad; the temp feet by 171 feet. It had 10 colum front, and probably 20 on each height from the pavement to the capitals, 551 feet; diameter at the 4 inches. The statue of the god v 4 inches. The statue of the god and gold. Near the theatre of I stands the choragic monument of Near the theatre of B erected on the street of tripods it to commemorate a musical victor circular structure, 8 feet in diamet on a square basement, and the wabout 34 feet. It is the earliest a Corinthian architecture. This exq monument was saved from de-truct ing been built into the walls of a the monastery is now in ruins, and ment of Lysicrates stands almost The tripod by which it was surmou but the inscription on the architrav ible. At the south-west angle of the tands the theatre or odeon of Reg lerodes Atticus. There are im Herodes Atticus. There are in mains of this structure: but the nearly filled with an immense man Passing over the deserted valley the ancient agora, we reach the Muses, on which is a considerable the monument of Philopappus—a and of no particular interest. In the north is the hill of the Payz. the popular assembly—and the Ben we have already spoken; and over rises the Arcopagus. But the nobl the Athenian architects were on the The ascent is at the western en buildings of the Periclean age on were the Propylea, the Erechthe Parthenon. The Propylea served an architectural embellishment, an defence of the Acropolis. Amo it was more admired than even for the skill with which the dif ground were overcome, deur of the general effect a flight of 60 marble ste broad. At the top of the of 6 fluted Doric columns 29 feet high. The side w feet apart, had \$ Dorie or ing upon the grand stairs contained the Pinacothe contained the Pinecothe 80; the hall of the south 16. Behind the Dorie he cent hall 60 feet brochigh, with a marble c



Within the

treasury of the city, 48 feet long.

e wall, through which there were ith doors or gates. The central gh which the Panathenaic prowas 13 feet wide, 24 feet high; central are, on each side, 91 feet smallest 5 feet, the height varyion. These gates were the only se into the Acropolis. Within n the eastern side, was another ep, its floor elevated about 4½ feet tern, and terminated by another of 6 columns. The pediments and admirable structure have been st of the columns remain, some of id others more or less broken, gments of the architraves. Pass-he Propylea, we come to the n the left or northern side of the the Parthenon on the right, near · Cimonian wall. The form of the ure first mentioned was oblong, of 6 Ionic columns at the east end, transept at the west, a portico n the north, and the portico of , standing on a basement 8 feet ath. At the western end there on which are 4 Ionic columns 1 the wall, and supporting a pedand western divisions of on different levels, the eastern igher than the western. Enough is extraordinary and beautiful a perfectly correct idea of its the interior is in so ruinous a the distribution and arrangement are subject to the greatest doubt. antiquarian questions which sugs here, cannot be discussed in this me now to the Parthenon, the nent in Athens, and the world. stween this temple and the Er-ikingly beautiful. We have allly alluded to the principal points and the various fortunes in hared. It was built of Pentelic the superintendence of Phidias, Callicrates. It stands on a basis steps, each 1 foot 9 inches and about 4 inches wide. Its upper step, is 101.33 feet; its; the height to the top of the pee upper step of the stylobate, 59 he stylobate, 64 feet. ectostyle, or with 8 columns at oripteral, or colonnaded all round, columns each side, not counting rners—46 in all. The length of rners 46 in all. The leng rody of the temple, is 193 71 feet, omitting fractions. een the peristyle and the wall is 9 sides, and 11 feet at the fronts. vided by a transverse wall into 2 ms; the eastern was the vaos et in length; the western, the vhich was commonly used as the

peristyle, at each end, were 8 columns, 88 feet high, on a stylobate of 2 steps. Within the naos, was a range of 10 Doric columns on each side, and 8 at the west end, forming 8 10 Doric columns on sides of a quadrangle; above them, an architrave supported an upper range of columns, which Wheeler, at the time of whose visit they were still standing, calls a kind of gallery; 14 feet distant from the western columns in the resonant of Pinichters and the standing of lery; 14 feet distant from the western communist the pavement of Piraic stone, on which the great chryselephantine statue of Athena was placed. Beside the internal decorations, the cutside of the temple was ornamented with outside of the temple was ornamented with three classes of sculpture: 1. The sculptures of the pediments, being independent statues resting upon the deep cornice. The subject of those on the eastern pediment was the birth of Athena; of those on the western, the contest between Poseidon and Athena, for the possession of Attica. 2. The groups in the metopes, 92 in number, representing combats of Hercules and Theseus, the Centaurs and Amazons, and perhaps some figures of the Persian war. These groups were executed in high relief. 3. The frieze round the upper border of the cella of the Parthenon contained a representation in low relief of the Panathenaic procession. All these classes of sculpture were in the highest style of classes of sculpture were in the highest style of the art, executed by Phidias himself, or under his immediate direction. Most of them were in place when Wheeler visited Athens, in 1676; and drawings of the figures in the pediments were made in 1674, by Carrey, a French archi-tect, in the suite of the Marquis de Nointel, minister of France at the Porte. The interior of the temple was thrown down in 1687, by the explosion of a bomb in the Turkish powder magazine, as has already been stated. The front columns of the peristyle escaped, but 8 on the north side, and 6 on the south, were overthrown. Morosini, in endeavoring to remove some of the figures on the pediments, broke them, and otherwise did great mischief. At the beginning of the present century, Lord Elgin dismantled a con-siderable part of the Parthenon of the remaining sculptures, which form the most precious treasures of the British museum, at the present moment. A question has been much discussed, as to whether any portion of the exterior of the temple was decorated with painting. It is hardly possible to doubt the fact, after a personal examination. Many of the months are personal examination. sonal examination. Many of the mouldings have traces of beautifully drawn patterns. Under the cornices, there are delicate tints of blue and red; and of blue in the triglyphs. Architraves and broader surfaces were tinged with ochre. All these figures were executed so delicately and exquisitely, that it is impossible to accept the theory sometimes advanced, of their being the work of subsequent barbarous ages. There are other traces of colors on the inner surface of the portion of the walls still standing, which evidently belong to a period after the stonecutters, Eulo-gius and Apollos, converted the Parthenon into a church. Among the inscriptions there is one,

found in 1836, containing a record of money paid for polychromatic decorations. The Par-thenon was built in the best period of architecture, and under the inspiration of the highest genins in art; and the best attainments of science rere combined in producing its exquisite perfec-ions. The pathetic beauty of its decay is inde-cribable. The impression it makes is that of a solemn and wondrous harmony. Its aspect is simple, but scientific investigation has not yet exhausted its beauties and refinament. bination of the most delicate architectural pro-portions, with the sculptural compositions, of which enough in each class remains, after all the which enough in each class remains, after all the ruin wrought by time, and war, and barbarism, to give us a lively idea of their admirable execution; the variety of these compositions, differing in character and size according to their position and subjects, but all relating to a central idea which harmonizes them, must have been magnificent beyond description, when the temple first stood in its fresh glory, under the sky of Attica. But delicacies of construction have not ceased to be discovered in this wonderful building. In 1837, Pennethorne, an English traveller, noticed the inclination of the columns. Hofer, Schubart, Hofer, Schubart, and others, have examined the subject, and published their observations upon the inclination of the columns, and the curved lines of the stylobate and architraves. Mr. Penrose, an English scholar and architect, visited Athens in 1845, and was afterward sent by the society of dilettanti to complete the investigations he had already commenced. The results were published in a splendid folio, 1851. They may be briefly summed up thus: The lines which in ordinary and the state of the sta nary architecture are straight, in the Doric tem-ples at Athens are delicate curves. The edges of ples at Athens are delicate curves. The edges of the steps, and the lines of the entablatures, are convex curves, lying in vertical planes, and nearly parallel, and the curves are conic sec-tions, the middle of the stylobate rising several inches above the extremities. The external lines of the columns are curved also, forming a hyperbolic entasis. The axis of the columns incline inward, so that opposite pairs, if produced sufficiently far, would meet. The spaces of the inter-columniations, and the size of the of the inter-columniations, and the size of the capitals, vary slightly, according to their position. From the usual points of view, these variations and curves are not perceptible, but they produce by their combination the effect of perfect harmony and regularity, and the absence of these refinements is the cause of the universal failure of their columniations. of these refinements is the cause of the universal failure of buildings constructed in modern times, according to what have been supposed to be the principles of Hellenic architecture. This subject is treated by Mr. Penrose in greater detail, and with remarkable precision; also by M. Beulé, in a learned work, entitled L'acropole d'Athènez, Paris, 1853-55.

ATHENS, a county in the S. E. p. On the Ohio river. It has an extresoil, and is well wooded, and to the Ohio river. It has an extresoil, and is well wooded, and to the Ohio river. It has an extresoil, and is well wooded, and to the Ohio river. It has an extresoil, and is well wooded, and to the Ohio river. It has an extresoil, and is well wooded, and to the Ohio river.

and large quantities of

throughout the county. extends from the centre of the com-Ohio canal. In 1850 the product 443,546 bushels of Indian corn 92,990 pounds of wool, 257,302 of be 12,188 tons of hay. There were 34

12,188 tons of hay. There were 34 a 12,188 tons of hay. There were 34 a 1 newspaper office, and 8,936 pupils a public schools. Pop. 18,215.

ATHENS, a prosperous town of county, Georgia, situated on the Occas at the northern end of the Athens but road, is the centre of a large cotton gre gion, has a cotton manufactory of large while within a few miles there are I It contains Franklin college, a number e es, a bank, and 5 newspapers. Pos. ATHERSTONE, a market town of in the county of Warwick, and about N. N. E. of the town of that name. consists mainly of one street, and co ancient chapel, now much defaced b alterations. In August, 1745, Ather the scene of a conference between the Richmond, afterward Henry VII., who was encamped near the old church, Stanleys, the result of which was throw of Richard III. at Bosword days afterward.

days afterward.

ATHERTON, CHARLES G., an Amelator, born at Amherst, N. H., Juldied Nov. 15, 1853. He graduate vard college in 1822, and was edithe law, but engaged in politica a young man. For many years he was ber of the N. H. legislature, and is speaker of the House. He was else federal house of representatives in Dec. 11, 1838, being a member of the tee of ways and means, he introduces tee of ways and means, he introduce suspension of the rules, a series of declaring that "congress has no juris the institution of slavery in the serv of the confederacy;" that "petitic abolition in the district of Columbia territories are part of a plan for its from the states;" that "such agitati from the states;" that "such against trary to the spirit of the constitute "the equality of the several states congress from an attempt to act in a seminat their several institutions;" against their several ins such attempts being in vio such attempts being in tution," "every petitic proposition, or paper, any way or to any ext or to the abolition the sentation thereof, wis thereon, be laid on ti bated, printed, or res were passed, under vote of 126 to 78. re-introduced they for rule of the next co petitions, upon p



was supported on the grounds of public the suppression of agitation. It is maintained for several sessions, until the second of principle, partly to object on the ground of principle, partly to experience of its inefficiency. Mr. Athermotined in the house of representatives il 1843, when he was elected to the senate, the hermatic in 1852. He acted steadily with the coratic party, and was considered at the of his death as the wealthiest citizen of Hampahira.

Hampahire.

ATHERTON, CHARLES HUMPHREY, father of preceding, born at Amherst, N. H., Aug. 14, ided Jan. 8, 1853, graduated at Harvard age in 1794. He was a representative in gress from 1815 to 1817, and held the office register of probate for 89 years, from 1798 1857. He was for many years at the head the bar in Hillsborough county, and confibuted many valuable papers to the history of his native state.

ATHERTON, HUMPHREY, a military officer, whose name is mentioned with much honor in the early annals of Massachusetts. He came the covenant of the church at Dorchester. He came admitted as a freeman in 1638, and was muty in the general court from Dorchester that year, and also in 1639, '41, and in '58, the springfield, when he was chosen speaker. The next year he was chosen assistant, and made use of his influence with them in a great process in the colony of Rhode Island. He was the springfield by a fall from his horse at Boston, Sept. 17, 1661. The manner of his death is made matter of comment by Hubbard as one of the judgments of God.

adjuncts of God.

ATHIAS, EMANUEL BEN JOSEPH, a Jewish mebbi, a printer in Amsterdam in the 17th century, principally noted for having published 2 editions of the old Testament in Hebrew in 1661 and 1667, valuable for their correctness, and on which are founded most of the modern editions. They are remarkable for being the first in which the verses were marked with Arabic figures. So much satisfaction did these improvements give to the government of Holland, that the states-general conferred upon the states as he in of gold and a model.

had, that the states-general conferred upon his a chain of gold and a medal.

ATHLETAE (Gr. a3\(\text{a}\), a prizes), a name applied by the Greeks and Romans to persons who emtanded, in contests of strength or agility, for honor and pecuniary or other rewards. In the early periods of Greek civilization, we do not hear of professional combatants, those who entended at the Olympic, Nemean, and other public games, being amateurs; but afterward a profession of athlets gradually formed itself. These athlets who conquered at any of the pet national festivals of Hellas were received their native states, and even beyond their limits, with uncommon honors. A breach was

made in the walls of the victor's native city for his reception; he passed through the streets, in a chariot drawn by 4 white horses, to the temple of the guardian deity of the state, where a solemn service was celebrated. His statue was set up in the market-place, he was relieved from the payment of taxes, and enjoyed a seat of honor on all public occasions. The great national festivals at which such honors might be won, were, for a long time, exclusively the Olympian, Isthmian, Nemean, and Pythian. At Athens such victors, according to a law of Solon, received a prize of 500 drachmæ for an Olympic crown, and 100 drachmæ for a crown won at the other 3 games. At Sparta they fought near the king's person. Athletæ were first introduced into Rome by Marcus Fulvius, at the conclusion of the Ætolian war, 186 B. C. Nero was passionately fond of the Greek athletæ. At Rome they formed a college, which enjoyed certain privileges, including immunity from taxes. The athletæ were trained by professional trainers. Their food, according to the early writers, consisted of dried figs, weak cheese, and vegetables; later it was the very reverse, and approximated more to that used by English prize-fighters, namely, a generous quantity of animal food, with a very small allowance of coarse unleavened bread. They had a minimum of food, under which they might not eat. This minimum was so large that they used to fall into a feverish sleep after it, like an overgorged boa-constrictor. While under training, wine and women were strictly forbidden. Their place of exercise was called the palæstra. Here and in the public arena they appeared naked, though in the Iliad they are represented as being girded about the loins. They were anointed with oil, with a view to make the limbs more supple, and prevent the waste of stamina from perspiration. After the contest the athletæ were scraped and rubbed by the aliptæ, like race-horses by stable boys. The protecting gods of the athletæ were Zeus, Hercules, and the Dioscuri.

ATHLONE, a market town and parliamentary borough in Ireland, lying on both sides of the river Shannon, partly in Westmeath, and partly in Roscommon, 76 miles W. from Dublin. Pop. in 1851, 6,218. The opposite shores of the river are here united by a handsome bridge, constructed in 1844, and a canal has been formed to avoid the rapids at this point, thus making navigation practicable for 71 miles higher up the stream. The castle occupies an eminence on the right bank of the river, and with its outworks covers a space of 15 acres. It was strongly fortified during the last war with France, and now contains 2 magazines, an ordnance store, an armory with 15,000 stand of arms, and barracks for 1,500 troops. After the battle of the Boyne, William III. besieged Athlone unsuccessfully, but it was taken by Gen. Ginkell in the following year. The town has 2 churches of the establishment, 2 Catholic chapels, and several dissenting meet-

ing-houses. It has a distillery, a brewery, and a tannery. An active trade is carried on by steamers with Limerick and Shannon harbor, and with Dublin by the grand and royal canals.

ATHOL, ATHOLE, or ATHOLL, a district in the northern part of Perthshire, Scotland. It is about 45 miles in length, by 30 in breadth, and is nicture and in pountaines some of

and is picturesque and mountainous, some of the summits attaining an elevation of more than 3,000 feet. It contains several lakes, and beautiful valleys, among which is the pass of Killiecrankie, where Grahame of Claverhouse gained a victory, and met his death, July 17, 1689. Agriculture is carried on in the valleys, Agriculture is carried on in the valleys, while on the hills sheep and cattle are pastured.

The duke of Athol receives his title from this district, where he possesses extensive estates, on which a large number of red deer, with which the country was formerly well stocked, are still kept.

At the north-western extremity ATHOS. At the north-western extremity of the Ægæan Archipelago, that sea is indented by a large peninsula, itself ending in 3 remarkable smaller peninsulas. The most easterly of the 3 is the peninsula of Athos, about 40 miles long and 4 broad, and with a trend due N. E., and included in the present Turkish province of Salonica. The peninsula of Athos is mountainous, and cut by numerous ravines. At the foot or extremity of the peninsula stands the mountain which has given it its name. Mt. foot or extremity of the peninsula stands the mountain which has given it its name. Mt. Athos is about 6,300 feet in height, with a peak of white limestone, while its lower rocks are of gneiss and argillaceous slate. It has altogether a unique situation, and has therefore been an object of interest both to ancients and moderns. The Christians early regarded it with religious veneration, and built upon it many chapels and places of devotion, some of which may be dated back as early as the time of Constantine. The monasteries as the time of Constantine. The monasteries of this mountain are 20 in number, and some of them are surrounded by high turrets. They have been the depositories, in several instances, of very valuable libraries, the well-preserved treasures of which have made important additions, within the last century, to our Greek classic literature. The number of monks in these convents is estimated at 8,000. The mountain, and, indeed, the entire peninsula, is called the Holy mountain. No female, not even of animals, is permitted to enter the peninsula. The monks devote themselves to a life of the most rigid asceticism. The scenery of the mountain and adjacent country is picturesque in the extreme. The sides of the mountain are dambed with east formets of nines, cake, and flanked with vast forests of pines, oaks, and chestnuts, the pines growing to an immense size. The shores of the cape are so bluffy and size. The shores of the cape are so blury and precipitous that 80 rods from shore gives 100 fathoms. It was across the mouth of the peninsula of Athos that Xerxes cut a canal for his ships, in his invasion of Greece. The remains of this canal are still distinctly visible, through most of its extent. Near the middle of its course it is not discernible, probably having

been filled up to allow a more re egress and ingress to the peninsula. according to ancient history, occupied a working force of the army 8 years in struction.

ATHWART, in sea phrase (Dan. s m tranverse), means across the line of a course.—Athwart the bows means at ri gles, or nearly so, to the bows.—Athwar-the situation of a ship when she is dr drifts across the forepart of another, v in contact or at a short distance.--Athe fore-foot is said of the track of a cam fired across the onward course of a pur signalled ship to bring her to, or to a to shorten sail, so that she may be exampled to shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail, so that she may be exampled to the shorten sail.

ATITLAN, the name of a town, h volcano, of Central America, 80 miles l Guatemala. The lake is 24 miles long wide. The town, Santiago de Atidan, ted on its south side. The height of the

is 12,500 feet.

is 12,500 feet.

ATKINSON, THEODORE, an eminen of New Hampshire, born at Newcas 20, 1697, died in 1779, graduated at university in 1718, was afterward times in actual service during the the French and Indians, and was a one of the commissioners sent to Ca the release of prisoners. He held at times the offices of clerk of the court mon pleas, collector, naval officer, an of the province; he was also appoint gate to the congress at Albany in 1 the same year chief justice of the revolution deprived him of office. son left a legacy of £200 to the l church of Portsmouth, the interest of was to be expended in bread for dis

each Sunday.

ATKYNS, SIR ROBERT, born in 1831 1709, son of Sir Edward Atkyns, whe English judge during the commonwa the reign of Charles II., and died in 16 82. Sir Robert, educated at Oxford, w 82. Sir Robert, educated at Uniora, we to the bar in 1645, made a knight of at the coronation of Charles II., in 1 soon after elected member of parlias East Looe, for which borough he count at until 1672, when he was made judge court of common pleas. He had a been recorder of Bristol, and solicities a index he was learned and if As a judge, he was less though, on the trial of the the popish plot of 1679, he she free from the prevalent anti-O the time. Dissatisfied with 1 ures and private influen independence of the ju-bench in 1680, it is not k signation or dismissal. In part in a civic election at I the 1



or court arrested the judgment, upon the indictment. Resigning his reSir Robert retired to his family seat stershire, where for some years he stensible part in public business, cted to the only parliament called by In his retirement, he wrote a powargument against the king's power with penal statutes, and aided Lord assell, with legal advice, on his trial eason in 1683, and, after the flight II., published two pamphlets in vinLord William, and in favor of the his attainder. In 1689, when Sir illiams was prosecuted for having, as and by command of the commons, rders to print Dangerfield's narrative sh plot, Sir Robert Atkyns published wing it was a question of parliamentction, with which the courts of law interfere. When William III. made I appointments, in February, 1689, Atkyns was appointed chief baron of iter, and in the same year was chosen the house of lords. In 1694 he ed to Sapperton Hall, near Cirenceshe died at the age of 88. His parliame in 1784.

TA, a city of De Kalb county, Georplace of great business activity, 101. of Macon, 171 W. of Augusta, and Nashville. Four lines of railroad, a road, from Augusta, the Macon and om Macon, the Atlantic and West-Chattanooga, Tenn., and the La om West Point, 72 miles distant, here. It is consequently a depot for and grain of several of the adjacent Atlanta was laid out in 1845, and very rapidly. It is now one of the most important places in northern Its site is elevated, and there is little It received a city charter in 1847. arches, 2 newspapers, and a bank. in 1853, about 4,000.

TIC, a county situated in the S. S. E. Jersey, has about 620 square miles r, and 8,961 inhabitants. It was set oucester county in 1837. The Atlanorders it on the S. E., where it is inabsecum, and several other bays, lanted with oysters, and other shell-surface of the county is low and flat; r near the coast, and the soil further t and sandy. The county seat is at Landing. The productions in 1850 8 bushels of Indian corn, 16,592 of ,350 of rye, and 9,569 tons of hay. 18 churches, and 840 pupils attend-schools. Pop. in 1855, 8,608.

TIC OCEAN, that part of the great between the western coast of Eu-

PIC OCEAN, that part of the great between the western coast of Euirica and the eastern coasts of Amerng from the Arctic to the Antarctic including the space between the me-

ridians of Cape Horn and the Cape of Good Hope. The portion north of the equator is called the North Atlantic and that on the south the Ethiopic or South Atlantic. The part which the Ethiopic of South Atlantic. The part which properly may be considered the broadest, that lying between the coasts of Georgia and Africa, is 3,600 miles, or, if we include the Gulf of Mexico, 4,700 in width. The narrowest part, between Cape Frio and the coast of Africa, is 1,530 miles.—The middle portion of the North Atlantic, called the Sea of Saragossa, has been represented as a "targrant and woody sor" "Government of the Coast of Saragossa, has been represented as a "targrant and woody sor" "Government and woody sor" "Gove sented as a "stagnant and weedy sea"-" gener sented as a "stagnant and weedy sea"—"generating on its calm surface what has been well called an oceanic meadow," sufficiently extended to retard the progress of vessels; but this is not so. The belt of calms called the horse latitudes crosses this area, but it is narrow compared with this "weedy sea," which has its currents and breezes. To the improvements which have been made in navigation and in the models of ships, we are indebted for the average time of passage of sailing vessels being shortened.—
With the knowledge which we now possess of
the routes pursued by sailing vessels in crossing
the Atlantic, one cannot but be surprised at the the Atlantic, one cannot but be surprised at the short passage made by Columbus on his first voyage. With no chart to guide him beyond the Canaries, and in vessels poorly equipped, he was 69 days from the bar of Saltez to his land-fall on the western continent, 25 of which he spent in Gomera, one of the Canary Islands. The distance sailed was about 4,000 miles. Columbus hove to at night as a matter of safety, when seeking for land to be discovered, and this same practice was continued until our own when seeking for land to be discovered, and this same practice was continued until our own times for the same reason. It was the custom for navigators bound for places within the tropics, until chronometers came into common use, to get in the latitude of the place sought wall to windward sufficient to component for use, to get in the latitude of the place sought well to windward, sufficient to compensate for any error in their dead reckoning, and then run down, as it was called, to the place. We have known frequently a week to be lost in this anxious work, with a fair wind, running in the daytime and lying to the greater part of the night.—Routes. Sailing vessels from the Unit the Gulf stream. When fairly within it the weather is generally good, but on the edge it is uncertain and squally. The Gulf stream on this route is not properly crossed, but you leave it, on the same side as you entered it, as soon after you pass the meridian of 35° as is expedient. The route by steamers would not be different.—From Europe to North America the most direct route is that of an arc of a great circle, but we cannot follow it in all cases to advantage. In the route to Europe we take advantage of the Gulf stream, which lengthened the distance; on our return we avoid this stream, but go further north to avail ourselves of favor able winds. If bound to any port north of Cape Hatteras, we keep well to the north of our course, which is, until we pass the meridian of 38°, toward Cape Race; when on this meridian we steer more to the south, so as to get on the

parallel of 43° before we are on the meridian of Sable Island, which we must pass to the south, on account of the dangerous fogs, if we are bound to any port south of Halifax. Then are bound to any port south of Halifax. Then we may shape our course so as to avoid the we may snape our course so as to avoid the south, increases in its velocity. In seasons when ice is to be expected, our course is more to the south as we approach the Bank of Newfoundland. The usual months for meeting the ice are April, May, and June, but in some years the beautiful as the property of the seasons as each as Echment and as the seasons as a season a season as a season as a season as a it has been seen as early as February and as late as August. In 1854 it was seen as late as November, in lat. 48°, long. 48° 20' W.; this was, however, north of the route. In 1856 it was in every month. What is called the southern passage is recommended by some, in the winter season, as a pleasant route where boisterous weather is not common; but this term is sometimes used in contradistinction to the route north of the Gulf stream, and by others as going as far south as the trade winds. Our impression is that a route passing south of the Azores and island of Bermuda is the true southern passage. This, for vessels bound to ports south of Cape Hatters, is to be preferred at any season. We once made a passage south of the Azores, crossing the Gulf stream a little north of Cape Hatteras, were blown off the coast, and recrossed the stream, notwithstanding which we arrived in New York several days previous to vessels which sailed with us, or even 10 days before. Our passage was a pleasant one; to those who went north it was otherwise. Steamers from Europe to northern ports take the most direct route, passing near Cape Race. The following table exhibits the average passages of packets, during a period of 8 years, between New York and Liverpool, in days and hours: revious to vessels which sailed with us, or even

Months	To Liverpool.	To N. York.	Months.	To Liverpool.	To N. York,
January, February, March, April, May, June,	P. M. 22 13 25 03 25 11 25 16 25 (0) 21 (0)	D. B. 41 (14) 87 (12) 80 14 84 (15) 29 17 84 11		D. IL. 34 14 35 (m 27 (n) 23 10 23 12 23 05	B. H. 84 11 36 01 83 13 31 15 81 15 81 15

By steam, we have the following results from the American steamers of the Collins' line, from April, 1850, to March, 1857:

TO LIVERPOOL						
Months.	No. Pass	Average.	Longuet.	Shertusk		
January, February, March, April, May, June, July, Angust, September, October, November, December,	18 9 11 14 11 11 11 12 14 12	11 10 50 10 17 cs 10 11 cg	D. M. M. 13 08 06 11 15 15 13 21 15 14 48 15 14 48 15 11 42 15 11 67 15 11 67 15 11 67 15 12 08 18 13 08 18	D. H. H. 10 19 25 9 11 35 10 11 30 10 66 30 9 30 25 10 61 15 9 21 15 10 62 45 9 10 65 10 65 45 9 11 35		
	i	l				

TO NEW YORK

Months.	No. Pass.	Average.	Lagra	
January, February, March, April, May, June, July, August, September, October, November,	19 19 11 9 11 14 13 10 12 14 13	D. M. M. 14 06 27 18 01 40 13 11 58 11 15 46 11 07 81 11 01 10 11 07 55 10 23 24 11 18 83 12 02 03 12 08 36 18 18 48	D. R. H. 14 11 13 14 66 69 16 23 46 15 16 69 13 09 94 11 19 45 12 10 45 13 17 83 14 13 13 17 89 15	

The results by the English steamers are:

TO LI	TO 30		
Vessel.	Yo.Pass.	Average.	No Page
Asia	1 1	D. M. M. 11 14 54 11 04 22 9 19 51 11 04 52 9 23 54 9 01 42	9 9 1

The route from ports on the Atlan North America, for sailing vessels be N. W. part of Cuba or the Gulf of by way of the Hole in the Wall, th point of Abaco. If the draught of wa exceed 12 feet, on passing the Hole i the passage is made over the Gre Bank, passing usually to the south of Keys; but with a greater draught of edge of the bank is followed, pan north, around the Great Isaacs, to 24° 40′. When you leave the 24° 40′. When you leave the ban the southern edge of the Gulf of you are fairly within the Gulf of until you are enabled to steer for Steamers from New York do not go the Hole in the Wall, but on the lof the Little Bahama Bank, coasting ern edge of this and the Great Bah to the south of the Orange Keys. ton steamers for Havana take the West. All vessels from the Gulf of ports contiguous thereto, bound of Atlantic coasts of America or Euro through the straits of Florid the Gulf stream as far a justify. Steamers can tan passage into the Carib quires a fast-sailing vessel, h quires a fast-sailing Cuban shore, to s northers this passe northers this pesses vessels bound to bound from the Atla ica to the Caribbes tilles, enter the form by such of the varie them in reout b



royages proceed north, through ilable passage, in order to pass out of these winds, never contending if it can be avoided. If from Jawestern part of the Caribbean ither to Europe or the Atlantic th America, and you cannot pass indward passage, you must go out Yucatan passage, and the straits Steamers from New York for Asthrough the Crooked Island pastween Cuba and St. Domingo, or ning the same way, unless they at Havana. The average voyage s, stopping at Kingston, and about return. Vessels from Europe to Yexico and Caribbean sea take ade N. E. trade winds, and enter the lly between Guadeloupe and Anbound to the Spanish main, when tween St. Lucia and St. Vincent. n voyage, if from the lesser An-assage between Guadeloupe and assage s to be preferred. The following the average of passages made by to the Gulf of Mexico and Carib-

o Havana, 12 days; return, 9 days o N. Orieana, 15 " 18 " o Vera Cruz, 22 " 24 " 24 " o Carthagena, 17; " 20; " 20; " an Domingo, 46 " 80 " fartinique, 80 " 48 " 32 " 'Pra Cruz, 40 " 43 " 'èw York, 85 " 22 " lavana, 80 " 28 "

om the United States to Rio de the introduction of lunar obserafterward of chronometers, into it was customary for vessels to uator as far to the east as long. as the means of determining the th accuracy increased, the dread ceward was not felt, and as vessels to the westward, shorter passages As early as 1826 they crossed in of 80°, and as navigators did not experience, others availed them-Improvements in the model of a anxiety to surpass our predeus on to be more adcarried ad some have gone too far west. s elsewhere, and it is arrogant for y that it is owing to any merit of Vessels sailing from the United zil, from December to June, should reach the longitude of 45° W. on reach the longitude of 45° w. on ourse before hauling to the south, direct course can be made so as equator in long. 30° W. The N. is are variable and irregular, vary-N. E. to E. S. E., but after gaining keep a southerly course without if you make a little westing, as e no difficulty in regaining your he southern limits. In the other vald not be advisable to get in the

may be preferable to go to the south of that isl-and, and go on the tack which will give the most southing. In sailing to the Cape of Good Hope, after crossing the equator steer to the southward until you are on the southern edge of the S. E. until you are on the southern eage of the S. E. trade winds, when as the winds favor you make your course more direct. The projections of the tracks on this route show a resemblance to projection of the currents. If bound into the Indian ocean, avoid the Agulhas current as you approach the cape, by keeping well to the south of it. The return route passes near St. Helena—crossing the equator about 25° W., is e. as direct as you can make it. If bound to Europe you will continue on a N. N. W. route until you pass the latitude of 80° N. When the winds are more favorable for you on this route you pass to the west of the Azores —CURRENTS. In treating of the currents we cannot do better In treating of the currents we cannot do better than select the following passage from Prof. Bache's paper upon the Gulf stream, read before the American geographical and statistical society, January 27, 1856, as our introduction: "The great part which the heat of the sun plays in disturbing the equilibrium of the surface of our globe, is well understood. Wherever he shines upon the surface, the air resting upon it is set in motion; so that the circle of the sun's illumination, as it advances over the earth, is a circle of disturbance." That a current can be produced solely by a moderate wind of long continuance is shown in our rivers and lakes, where the water is driven so as to and lakes, where the water is driven so show a decrease in the depth to windward; and that with a wind of short duration a heaping that with a wind of short duration a heaping up of the waters can take place, we have an instance in Lake Nicaragua. This lake is 90 miles in length, extending W. N. W. and E. S. E., and it was noticed by the buccaneers as having an ebb and flow of the tide; but they did not assign any cause for it. We have noticed toward evening on its N. W. shore a rise of the state of the stat about a foot, and a fall at the same time on the opposite end of about 6 inches. This oscillation is owing entirely to the increased strength of the wind blowing from the eastward in the latter part of the day. Such being the effect on a small body of water in so short a period, what must it be, when the action of the wind is continuous for 4,000 miles, on a surface of water whose motion is unobstructed for that distance? This we cannot answer, as we are almost ignorant of the general laws regulating the motions of water; but we can point out where it is heaped up within the influence of the trade winds in the ocean so that the tides are quite small, and in some places there are no lunar tides, but a tide once in 24 hours, varying but little from a certain time of the day, and showing that in the open sea there are oscillations dependent on the varying force of the wind, or perhaps on land and sea breezes.— The equatorial current, that volume of water moving from east to west on our globe, inter-rupted by continents, and sending off branches

calm latitudes to the eastward of Bermuda, and it

in other directions again to reunite, may be said to commence or more properly to reappear on the west coast of Africa, south of the equa-tor. The action of the trade winds, which blow constantly between the tropics, is the blow constantly between the tropics, is the cause of this current, and without doubt its ve-locity is increased by the rotation of the earth on its axis; for although the motion of the tidal wave does not require a transfer of water at the same rate, and in no case whatever is equal to it, yet as the summit of the tide is always to the eastward of the place assigned by theory, the figure of the ocean is not that of equilibrity, and as the earth turns on its axis cannot attain it, but will constantly have a disposition toward it, which will cause a perpetual current of the waters. This current at its commencement, is about 160 miles in breadth, and flows northwesterly with a velocity of about 25 or 30 miles in 24 hours. It crosses the equator about the meridian of Greenwich, where it comes in contact with the southern edge of the Guinea current flowing in an opposite direction, and having a higher temperature. Hero the rent flows westerly, and exhibits the phenomenon of two currents flowing adjacent to each other in opposite directions for nearly 1,000 miles, and having a difference of temperature of about 7°. Flowing onward on both sides of the equator, the volume of this current is constantly increased by the accession from the scantly increased by the accession from the south Atlantic current; and when it reaches the meridian of 22° W., it is said to send off a branch toward the N. W., probably caused by the tidal wave which is felt as far N. as 20°, or perhaps further. At 30° W. its breadth is estimated by some to be 300 miles, but it timated by some to be 300 miles, but it is probably much more. Here it divides; the southern branch forming the Brazil current. southern branch forming the Brazil current. The main branch of the equatorial current now flows W. N. W., and is known as the Guinea current. In connection with currents produced by the N. E. trades it flows into the Caribbean sea at a velocity varying from 1 to 2 miles per hour, and estimating the diameter in the meridian of 65° at 300 miles, we can form some idea of the volume of water that flows continually toward the Gulf of Mexico, where it is said to form "a reservoir for the Gulf stream." The distance from Cape Catouche to Cape St. Antonio is 105 miles, between which points is the Yucatan passage, through which the water flows into the Gulf of Mexico; with the exception of the counter-currents off Cape St. Antonio, at the rate of from 27 to 50 miles in 24 hours. As the set and estimating the diameter in the meridian of of from 27 to 50 miles in 24 hours. As the set to the S. E. off this cape does not extend over 25 miles from the shore, it is within limits to assume the diameter of this stream at 75 miles; the direction in which it flows being from W W. to N. It is now that it turns westward and is said to make the circuit of the Gulf of Mexico. We find it with a decreasing rate setting over the Campeche bank and thence into the bay of Campeche, until it nearly cesses. To the N. of Vera Cruz we again meet this cur-rent, flowing N. half a mile an hour. N. N. E.

from Vera Cruz, in lat. 23°, it sets in mile an hour, and in lat. 27° it is found N. N. E. with an increased velocity. approach the meridian of the Missis more easterly, and beyond that the dra toward the N. W. coast of Cuba until it. a small portion passing to the W. of (Antonio, and the greater to the eastware ing the Gulf stream.--The average to of the water in the Gulf of Mexico bean sea is higher than that of the com same latitudes, or even that of the ecurrent at its commencement; and all high temperature is owing to the get of the heated water from the terrid a undoubtedly increased by the calorica it from the surrounding country, which properly called the Tierra Calienta anomalies are met with, both as to the and direction of the equatorial cures may be explained as accurate observa cumulate; we have endeavored to give eral direction and rate of flow, an Gulf stream may be considered as it uation, it is next in order, and we mence with Dr. Franklin's opinion course: "This stream is probably gen the great accumulation of water on the course is probably generated the great accumulation of water on the course is the great accumulation of water on the course of the cours coast of America between the tropic trade winds, which constantly blow the known that a large stream of water 10 m and only 3 feet deep, has by A str had its water driven to one side and so as to become 6 feet deen, while ward side was laid dry. This may idea of the quantity heaped up on a can coast, and the reason for its runs in a strong current through the island bay of Mexico, and from thence issue the Gulf of Florida, and proceeding coast to the banks of Newfoundland turns off toward and runs down the western islands." At the time Dr. wrote, we were without the means possess of determining the longitudes but few observations had been m currents of the ocean; nevertheless stated as probable is now confirmed, winds do give "the Gulf stream its i locity," and all locity," and although other to to change its direction after la channel, yet the northing on our centirely to the beauer up through the strate of Florida. I lin appears to have been the fir attempt to delibeate this stress the benefit of navigators, complaint was made by the the benefit of complaint was made in the at Boston to the lord of the don, "that the packet between New York were generally for their passages than the mark London to Rhote I hand "me stead of New York that for the stead of New York that the stead of New York the stead of New York the stead of New York that the stead of New York the stead of Newpo D

the occasion. He on and why there should be such cially as merchant ships were n than packets, and the dis-n was greater than from Falking there must be some missentation, he communicated Nantucket captain of his ac-told him "he believed the it the difference was owing to iode Island captains were ac-Gulf stream, while those of ets were not; that they had en they were in the stream, m that they were stemming a against them to the value of 3 nd advised them to cross and it they were too wise to be ple American fishermen." At juest, he marked out this curaved and sent to the captains ho slighted it. Dr. Franklin 10 water of the stream was t of the ocean on either side of the use of the thermometer 1 so great was the interest ta-L Jonathan Williams, that he se on thermometrical navigaf this instrument in ascertain-If stream was crossed, and as termining the position of the at importance, until chronom-general use. The importance general use. The importance xamination into the temperaslocity, and other peculiarities etermined Prof. Bache, super-J. S. coast survey, to direct the ficers of the hydrographic parresults are exceedingly inter-reduced to form, will be pub-ean time, we are indebted to the information furnished in n the paper referred to in our ne duty of these officers was urdous. Lieutenant-command-he was swept from the deck h 10 of his men, and lost. To discovery of the "cold wall", and the "intensive cold waof the hot water of the Gulf not settled as to where the Gulf stream is. They say, in in the Gulf of Mexico." ortugas, the stream flows to adually increasing its velocin. Opposite Havana, where about 70 miles, its rate is in the centre, decreasing on from Elbow Key, where the ut 47 miles, the set, in the 8 miles an hour, with an in-vard the Florida reefs. The vard the Florida reefs. The s to the northward, and in the Cape Florida and the Bemini varies from 8 to 5 miles an the narrowest part of the stream, it being only 25 miles in width, and here the maximum temperature is 85°. The here the maximum temperature is 85°. mean temperature may perhaps exceed that of the Gulf of Mexico, as the warm waters of the latter would naturally be collected together at the surface, as the passage becomes narrow. The examination of this section by Lieut.com manding Craven, U. S. N., on coast survey service, makes it exceedingly interesting. He found no greater depth than 370 fathoms there, also a temperature of 35° at that depth, showing the exceeding the experiments. ing the existence of a polar current as far south as lat. 25½° N. The "cold wall," in this section, is within 10 miles of the shore. Passing the straits, the axis of the stream has a northerly set, until it passes Cape Canaveral, when it bends gradually to the eastward, running some-what parallel with the general direction of the coast, but as it approaches Cape Hatteras, it bends so as to flow within 50 miles of the cape, nearly N. N. E., at about 2 miles per hour, after which it turns easterly, and in lat. 38° it runs with a velocity of between 1 and 2 miles an hour. The western edge of the stream bends well into the bight north of Cape Canaxan and away within a short distance of Cape eral, and runs within a short distance of Cape Hatteras, when it again recedes from the axis. The bending of the axis and stream here is probably owing to the progress of the tidal wave. As this stream comes out from the for upward of 100 miles. The separation can easily be seen by the eye between it and the waters of the Atlantic. The temperature, although above that of the ocean at all seasons, in the winter is 20° and sometimes 30° above that of the waters of the ocean between Cape Hatteras and the Grand Bank of Newfoundland. Cooling, as it flows easterly, it has a high temperature when it turns to the south-The examination of the Gulf stream by ward. The examination of the Gulf stream by the officers of the coast survey has not extended beyond the section S. E. of Nantucket, by Lieut-commanding Davis in 1845. The subjoined table exhibits the distance on each section of the "cold wall" from the shore, and the width of the several bands of warm and cold water measured on the lines of the sections:

Section.	Distance of cold wall from shore.	First Maximum, or Hot Band.	Second Minimum, or Cold Band.	Second Maximum, or Warm Band.	Width of the three Bands of Gulf Stream,	Third Minimum.	Third Maximum.	Fourth Minimum.
Sandy Hook, Cape May,	235 187	60 50	40 87	50 45	150 182	75 75	Indef.	
Cape Henry,	100	50	25	60	185	65	75	45
Cape Hatteras,	35	50	80	50	130	50	60	Indefinite
Cape Fear,	65	80	17	40	87	85	55 85	B
Charleston,	70	25	10	85	70	25	80	de
St. Simon's,	90	25	10	80	65	20	85	Ē
St. Augustine,	75	50	100		50	20		
Cape Canaveral,	85	40			40 25	10		
Cape Florida,	10	25			20	0	1 1	

[&]quot;They present a width of Gulf stream proper

of from 25 miles at Cape Florida, to 150 miles at Sandy Hook; and of warm water (at, say 15 fathoms) of from 30 to 300 miles wide. These principal divisions of the Gulf stream as we pass southward, increase in their definiteness, and are limited to smaller spaces." The axis is the warmer, and the temperature falls gradually on the outside, but rapidly toward the "cold wall." From the discoveries of Lieuts. Maffit and Craven, the cold bands appear to be produced by the shape of the bottom of the sea. In the sections of Charleston and Cape Canaveral, they found two ridges or ranges of hills running parallel with the coast, and it is nearly over the top of these that the first and second cold bands were found. One of these ranges has been traced as far north as Cape Lookout by Commander Sands, U. S. N., on coast survey service. The discovery of the cold bands, and also of the cause of their existence, was so also of the cause of their existence, was so unexpected that it is puerile for any one to say, "I predicted it would be so years ago." The connection between them is this: the polar current flowing toward the equator under the warm water will, by the increasing rotative velocity of the earth's surface, have a tendency weathward and being resisted by inequalities at westward, and being resisted by inequalities at the bottom, will be forced upward toward the surface, hence these bands and the "cold wall." In the former it is only a change in the temperature and velocity of the stream, while in the latter the polar current shows itself on the surface, its course being regulated by the general direction of the slopes with which it comes in contact, and it will confine the warm water flowing in a contrary direction firmly below, but allowing it at times to overlie it.— For the continuation of the Gulf stream to the eastward of the coast survey examination we are in want of definite information. Rennell's investigation of the currents of the Atlantic ocean, published in 1832, which were mostly confined to the surface, is the best we have. The northern edge crosses the southern part of the Bank of Newfoundland, in about lat. 43° N. in the month of May, and later in the season about 2° further north.—The productions of the tropics have been floated to the shores of Norway, and the western coasts of the British isles; while the warm temperature of the water is traced from the Gulf stream to the N. W. coast of Europe, showing that a large branch passes to the N. E. from the main stream eastward of the meridian of 40°. What should cause this branching off, unless it is the tidal wave, we cannot say; the cotidal lines are at right angles to this branch in this part of the ocean, and the movement of the wave is in the direction The following statement of the of the stream. loss of 2 ships gives us some information as to the velocity and direction of the current before it reaches the grand bank in the centre of the stream:—"Ship Trade Wind, on the 26th of June, at 11.30 P. M., came in contact with the ship Olympus, and both vessels went down in lat. 415 30, long. 57°. On the 1st of July,

2.30 P. M., the ship Empire took a the foremast of the Trade Wind, it has foremast of the Trade Wind, it hong. 55° 30′, showing that the mast ed '72 miles on a N. 66° E. true con hours, making 72° of a knot, nearly, This course, if continued on the arc circle, would strike the coast of Fra deepest part of the bay of Biscay. I ridian and in lat. 39°, the set is which course if continued as above. which course if continued as above between the Madeira and Canary is currents cannot move in great circle the plane of the equator. In the hemisphere they will incline to the unless obstructed. There is no obs the main body after it passes the Bar foundland, and the predominating the north of west on its northern branches off to the N. E. The B can be traced to the Azores on it edge, and it reaches the coasts of F1 and Portugal, so expanded and wit ished a velocity, that we must resort of bottles thrown into the ocean ward picked up to ascertain its cos show it to be east, to the north of and its effects are shown in an incr ty as it impinges on the coasts. isterre, where it may be said to northern part forms the Kennell the southern flows along the coast South of the Azores its direction is erly; and although it is said to b aragossa sea, we can trace its co the African and Guinea currents, with its diameter decreasing and evelocity, follows the general discoust into the Bight of Benin, when turns southerly, and is lost in the turns southerly, and is lost in the current, as it does not cross the Guinea current varies its diameter the season, as also its velocity. In of the Cape Verd islands its tembelow that of the ocean, while to the gulf of Guinea it is higher than equatorial current flowing in contaequatorial current nowing in conting in a contrary direction, and ceiving its supply from a could diameter south of Cape Palmas miles, and its velocity nearly 3:

We have now completed the great surface-current of ocean. Within this circ which so m of Columbus' ves ek on l of Columbus for not now as Columbus for fields of floating weeks es profusion they are f stches within this spe patches within the spirit for a long while whe came, until it was so Andros islands by Co The forces which prothe trade visit s, e hater of h is locity of



winds on the coasts of Portugal and The change in the direction of the sowing: 1, to the direction of the ainst which it impinges; 2, the rothe earth on its axis; 3, the prothe tidal wave; 4, the prevailing he Rennell Current, so called after the first discovered its course. who first discovered its course, sterly direction off Cape Finisterre, g the north coast of Spain and the of France, and may be said to cross ace of both the English and Irish ending a branch into the latter. in its velocity and direction, more y as it leaves the Bay of Biscay.—The rest. This we have spoken of as of the equatorial current. It comout 6° S., and flows along the east outh America as far as Cape Frio, livides; a small branch flowing on the Horn and the main branch turn. pe Horn, and the main branch turnrd forms the southern connecting s it is sometimes called, the cross This, as the South Atlantic ocean. the latitude of the predominating rinds, has its velocity increased, and the main body, passing within 150 e Cape of Good Hope, into the Indian sile a branch turning to the north South Atlantic current.—The South Current.

The Agulhas current matinually into the Atlantic ocean, a Cape of Good Hope, is only one of nes of the equatorial current of the an, and on passing the cape forms encement of the South Atlantic curtemperature at its commencement han that of the Indian ocean, showt is not a polar current. This cur-onnection with the branch of the connecting current, flows along the est of Africa until it mixes with the current. Its general direction is zerly, but owing to the prevailing winds along the African coast, a it, called the South African current, • direction of the shore to where it h the Guinea current, or the com-Roth s of the equatorial current. African and the Guinea currents are rrents of moderate depth following the coast; as the winds blow, they e neighborhood of the equator. We n of the surface currents originating storial regions, and have shown that, s north and the south of the equator, made, by which a portion of the returned from whence they came. that the circumstances are different. reservoir to allow the waters to be and become heated, or a narrow it to escape in the southern circuit; s, there is a resemblance.—It has I why should not the Gulf stream out like an immense river, and its immediately lost? We have no im-

mense river, when compared with the volume rushing out through the straits of Florida; but if we had, it would, under the same circum-stances, preserve its distinctive character in the ocean in the same manner.—In various parts of the ocean we have surface currents of this class, caused by alternating winds. Our limits will not allow us to treat of them, but they are the most dangerous to navigators of any. We have known them to set for a long period in a particular direction, and then turn, flowing a contrary way. Polar currents are those flowing continually from the polar regions toward the equator, to restore the equilibrium, which is constantly being disturbed by evaporation, changes in the density of the waters, and by the flowing off of the warmer or surface cur-rents.—If the view of Prof. Dove is correct, "that isothermal lines of mean annual tempera ture enclose one connected space of greatest cold, stretching from Melville island toward Icy Cape, but without reaching the latter, or touching the pole," the cause of the flowing of the Arctic current south, through Davis's straits, and along the east coast of Greenland, as a surface current, is explained, as this neigh-borhood becomes the area of disturbance in the Arctic circle. The ice, with the waters in contact with it, are of less specific gravity than that below the surface, and the former, as accumulation takes place, driven south by the centrifugal force caused by the earth's diurnal motion, flow out through the most direct channel with David's terrifugal drive terrifugal. nel, viz., Davis's strait, and by the way of the east coast of Greenland. This current flows from the frozen regions, one branch descending along the east coast of Greenland, and the other along the east coast of Greenland, and the other coming down through Davis's strait, along the coast of Labrador, is improperly called the Hudson Bay current; they unite at the mouth of the straits, forming one current, which flows south, a small branch flowing through the straits of Belle Isle, carrying its waters into and mixing them with those of the gulf of St. Lawrence, while the main stream continues along the coast of Newfoundland, until it comes in contact with the Gulf stream. Here are along the coast of Newfoundland, until it comes in contact with the Gulf stream. Here, as a surface current, it flows along the American coast, and as an under current it continues on, carrying into the middle of the stream, itself, immense icebergs, there to be dissolved by the waters coming from the tropics.—The following remarks from the pen of the late Wm. C. Redfield, written in 1837, cannot be improved, even at this date. They were not speculations: "It appears, from observations found on the pages of the Coast Pilot, that immediately contiguous to the borders of the Gulf stream, on tiguous to the borders of the Gulf stream, on the coast of the United States, a moderate current is generally found setting to the southward and westward, or in the direction which is opposite to the stream and parallel to the American coast. By a familiar association, which is a sociation which is a sociation of the stream and parallel to the American coast. this is usually called an eddy current; but we shall probably find, on more particular inquiry, that it has little or no claim to this character.

An eddy, as is well known, is usually caused An eddy, as is well known, is usually caused by some fixed obstacle opposed to a stream, and exhibits a rotary movement. It also derives its waters from the parent stream, and necessarily partakes of the same temperature. I must, therefore, dissent from the views of those persons who refer this current to the eddying action of the Gulf stream, for the following reasons: 1 Receases in order sea it not lowing reasons: 1. Because in open sea it nowhere assumes the form of an eddy; but, when unobstructed by violent winds, pursues its course toward the south-west parallel to the general direction of the coast. 2. Because, on the edge of the Gulf stream on this coast, there are no obstacles presented which could divert the progress of a portion of the stream, or circumscribe the same in eddies. 3. Because, if this current was derived from the Gulf stream, it must necessarily partake of its temperature as above suggested; but the sudden reduction of temperature on leaving the margin of the Gulf stream is most remarkable, and is almost unparalleled, except in the immediate vicinity of ice. We shall in vain attempt to explain this extraordinary change of temperature by the proximity of shallows or soundings, for this annot avail if the water itself be derived from the Gulf stream, to say nothing here of the general unsoundness of this explanation. I have long since become satisfied that the current in question is neither more nor less than a direct continuation of the Polar or Labrador current, which bears southward the great stream of drift ice from Davis's strait, and which, in its progress to the lower latitudes, is kept in constant proximity to the American coast by the same dynamical law or influence which in northern hemispheres causes all currents which pass in a southerly direction to incline to the westward, in consequence of the increasing rotative velocity of the earth's surface in the opposite direction, as in the case of the trade winds in the lower latitudes. In collating the observations of various navigators, we find reason to conclude that, in ordinary states of weather, this current may be traced from the coast of Newfoundland to Cape Hatteras, and perhaps to Florida, the reflux influence which sometimes follows a violent gale, being of short duration." According to this view of the case, the Gulf stream, in its course from Florida to the Banks of Newfoundland, is in part embedded upon a colder current, which is setting in the opposite direction in its progress from the polar regions. The impulses by which the opposite currents are maintained being as permanent and unchanging as the diurnal rotation of the planet, their opposite courses on this coast, while in contact with each other, are no more surprising or inexplicable than those of the same manner; and the latter are often known to maintain opposite courses for a long period, and at high velocities. The drift ice from the polar basin is all found in the western portion of the Arctic and north At-

lantic oceans, notwithstanding the intviolent westerly winds. A writer is don "Nautical Magazine" supposes it tion of the polar current, after bearing along the eastern edge of the grand the Atlantic, there becomes exhausted the Eluvida stream. By its action the Florida stream. By its action stream of ice is undoubtedly browithin the dissolving influence of stream, and the grand bank itself per its origin to the deposits which have from this process during a long coun But this portion of the polar current joins the Gulf stream in no other than by intruding upon and passing same, the order of superposition be mined by the diversity of temperat the deeper position of the polar straicebergs being thus carried southwa deeper polar current, their rapid des and we are thus relieved from these obstructions which would otherwise in the lower latitudes of the Atlant two streams of current therefore doz in any proper sense, but like other both atmospheric and aqueous determinate course, the Gulf strethrown eastward by the greater velo it acquired in latitudes nearer the e the polar current being thrown west the shoals and soundings of the Am tinent and its contiguous ocean desslower rotation which it derived in tudes. The writer above alluded the natural course of the polar cu Davis's strait to be toward the coast. in north Africa; but a little attendeffect of the earth's rotation on this show that both it and the ice-drift borne on its surface must be turn as here described, in spite of the pow erly gales which prevail in these Light articles, like bottles, however, set affeat to determine the drift of es not only yield greatly to the influ winds, but falling into the surface con Gulf stream, will of course accomp rent in its progress to the cos where a leading branch of this s Norway, and appears to be ultimote the polar current. The branch of the warm stream assumed more direct circuit of grant of polar current of the warm stream assumed to the warm stream assumed to the warm stream assumed to the warm of coast of north Africa to th from whence it again m stream. It is by this sys aided by various subor instance, as Renz mechanical system of o parently maintained; s winds wholly unfelt up ble that the same syst ed in au



hat reciprocating movement of the called under-currents, we know n Baffin's bay we find them floating the surface-current, carrying imgs through the surface ice with invelocity. And in various parts of aperate regions, we find them flowoward the equator. The following om several instances contained in f Lieut. Walsh, U. S. N., commandschooner Taney, to Lieut. Maury: se-current was first tried by the (a heavy iron kettle being lowered to the depth of 80 fathoms); then, of the under-current, a large chipsual quadrantal form, the arc of it all four feet, and heavily loaded nake it sink and keep upright, by a light but strong cod-line to 126 fathoms (the length of the ega was attached as a float, a log to this barrega, and the rate of his float as measured by this log glass, and the direction, as shown a, were assumed as the velocity and nder-current. No allowance was a drag of the barrega, which was lifferent direction from the surfacewas wonderful indeed to see this e off against the wind and sea and nt; at the rate of over one knot an generally the case, and on one oc-uch as 13 knot. The men in the ot repress exclamations of surprise, appeared as if some monster of the aid of the weight below, and was with it. I will cite from the log ances of these experiments. On lat. 24° 43′ N., long. 65° 25′ W., surface-current of \(\frac{1}{2} \) knot per hour, s west, and an under-current at the fathons, of 1 knot, setting W.S. W., of water at surface, 77.3°, at 50 5°, at 100 fathoms, 73.5°. The , at 100 fathoms, 73.5°. The the vessel on that day (as deby he comparison of the true positions estronomical observations and chroith those of the dead reckoning) this trial of the surface-current, ne within a fraction, viz., 0.3 knot. In this day the sea was covered es of medusæ of a dark red color, shape, from \(\frac{1}{3} \) inch in diameter.

at 4 P. M., in lat. 25° 55' N., long.
the surface-current was found to be ng N. N. E., and the under-current noms) 13 knot, setting S. E., being under-current I have alluded to: ell ascertained by several trials—of water at surface, 75°, at 50, at 100 fathoms, 69°. From this , at 100 fathoms, 69°. From this to 8 A. M., the following morning, ced a strong current of 1.3 knot tting N. 14° E., as determined by ions. While trying the currents in

ies and a state of unstable equilib-

the boat, all hands remaining on board the schooner were employed sounding with 500 fathous line, but failed to get the temperature at that depth, there being at the time too much swell."—To the "Physical Geography of the Sea," by Lieut. Maury, we are indebted for much information. We find facts stated there which are not found elsewhere. Although we may not always agree to the inferences drawn, we are indebted to him for the best delineation of soundings in the blue water of the North Atlantic ocean, as the expeditions for that purpose were first planned by him. These depths are not as accurate as could be wished, on account of the methods at first used in sounding,these have been improved, and a short history of deep-sea soundings is exceedingly interesting. Capt. Ross, R. N., in 1818, sounded in 1,050 fathoms, using a 2½ inch whale line, with a weight of upward of 100 pounds. This weight was 27 minutes in descending, and it required an hour to haul it in. It was considered a tean nour to naul it in. It was considered a te-dious method, and other plans tried by the English, French, and Dutch, using silk thread, twine, and also the common lead line. These attempts failed, as the shock could not be felt on the lead striking the bottom, owing to the insufficiency of the weight, stray-line and undercurrents—34,000, 39,000, and 50,000 feet were tried without success by officers in the U. S. N.; and although Capt. Denham, of H. B. M. ship Herald, reported bottom in the South Atlantic at the depth of 46,000 feet, we do not consider his success as any evidence of the depth, or the line run out by others as a failure in reaching bottom. We wanted to see the bottom, and thus know that the messenger had performed its duty. An ingenious arrangement by Passed midshipman Brooke, U. S. N., detaching the weight on its reaching the bottom, and allowing the line to be drawn up with a rod, the foot of which was armed with tallow or with the barrel of a common quill attached to it, furnished this, but we wanted something more—we wanted the perpendicular distance. The plan adopted in the U. S. N. until the voyage of the Arctic in 1856, was using twine, made expressly for the purpose, sufficiently strong to sustain a weight of at least sixty pounds in the open air—a cannon ball of 32 or 68 pounds weight was appended to it, and on being thrown overboard, was allowed to take the line freely from a reel. The line was divided into 100 fathom marks, and the time noted as they successively went out. This furnished an average time of descent at different depths, and was sufficiently accurate to show that the depth of the ocean had been overrated. These soundings were made from a boat, so as to enable the men with their oars to keep in such a position that the line should be perpendicular. The timing the line as it goes out and ascertaining the "law of descent," is, after all, but a check on your operations in giving the time nearly when the line ceases to flow out according to that law of descent; for currents will act on the line more or less, and cause it to sway in the bight, so that

the law of average time of descent is no law after all that can be read, and one would be at a loss to know whether to depend upon the time or the length indicated on the line, to ascertain the depth. It would perhaps be useful if the actual depth was first ascertained in very deep water with Massey's sounding machine, to ascertain the law of descent; so that those not furnished with any better mode, could sound: but it would be necessary to have a uniform standard for the figure of the weight and also for the line. The weight should not be a sphere, for the line. The weight should not be a sphere, on account of the greater resistance experienced by that form.—The plan for deep-sea soundings adopted by the Arctic, in 1856, was as follows:
The Arctic was fitted with a steam reel, worked by two oscillating cylinders; the whole engine and reel weighing about 2,700 pounds. The reel carried about ten thousand fathoms of deep-sea line. The sounding line was passed through two leading blocks; the first hooked to a pend-ant from the foremast head, on either side, about half way down. There was another hooked to the head of an iron davit, used instead of a cat-head, and made to shift from one side to the other. The main dependence for vertical depth was on Massey's patent sounding apparatus. Every opportunity which occurred, was taken advantage of to compare the line (which was marked in the ordinary way) with the indicator, and this was done in the Arctic sufficiently often to justify great confidence in its accuracy. In one experiment in 2,070 fathoms water, only 2,150 fathoms were used, and if the line had been stopped a little sooner, it was clear that an entire correspondence might have been ob-tained; but it is entirely out of the question to suppose that the exact time can be ascertained when the weight strikes the bottom. By taking the exact time of descent of each hundred fathoms, some approximation may be arrived at, but under-currents may occur, and other impediments—rain squalls may intervene at night, so as to prevent the possibility of getting the exact clapsed time. The plan of allowing the line to run until it was certain that enough was out to reach bottom, was preferred, and then recling up, very slowly at first, gradually increasing the revolutions of the reel as the lead approached the surface. The self-detaching apparatus of Lieut. Brooke, U. S. N., with a lead approached the surrace. The self-deckeding apparatus of Lieut. Brooke, U. S. N., with a lead of about 100 to 150 pounds weight, about 24 feet long, of a conical form, with its greatest diameter 4 inches from the lower end, tapering thence to the upper end, to 2, was used. This lead had a hold I just in diameter themes, for a hole I inch in diameter through its w length to allow an iron shaft to pass thro The shaft had a hole in the lower end, 2 i deep, and sufficiently large to admit 4 or 5 c a quill barrels with their ends cut off. when received the specimens of the bott when the end of the lead or shaft plunged have it. The upper end of the shaft had Massey's patent apparatus on it. After a dozen desp-sea casts had been made, the line was apt to break when receiving it measure. when reeling it up again. In all these cases a

line was got up, bent on s operation persevered in, until finally as In very pleasant weather, two hours wificient for a cast of 2,000 fathoms, and of the descent of the lead was not than that of hauling it up again. fathoms of deep-sea line lasted from the of Newfoundland to the banks of t coast, and the time occupied was 23 de distance between the positions occup from 20 to 100 miles—the deeper was the larger. The Massey's indicator or the deeper water apparatus was increased to 21,000 fm. Naxton, of the coast survey office, not need to be turned back until near at its highest numbers. The engine the reel, was driven by steam from boiler, and was placed just forware smoke-stack, the reel being placed a deck. The power of the engine was to give five hundred revolutions per the reel. The officer in charge was tious in manœuvring the vessel, and the engineer promptly advised of slow ping, and starting ahead the engine, a line could descend as nearly perpan possible. The deep-sea soundings are perature of the ocean, at great depths by Lieut. Berryman, commanding at Arctic in 1857, are very interesting latter may be considered as one of est discoveries in physical geograph were a continuation of the Gulf's servations, under the direction of Pi Lieutenant Berryman sailed from July 11, and the first deep-sa as tained was 747 fathoms. This was i stream, about 70 miles 8. E. of Saxton's thermometer in this plan a temperature of 19° at the depth a oms. E. 17° 8, from this about 30 tom was found in 1,005 fathoms; the type at that depth being 90° and N. ture at that depth being 20°, and N. of this, bottom was reached with 75 he temperature being 33°. ings were continued to the east: Gulf stream, the depth soon increa fathoms, then gradually to 1,441 the meridian of Cape tiable, when until he had reached the morth the Gulf stream, in the le where he found 1,076 for of the thermometers indi er 30° of temperature the soundings were no creasing but little until h of Sable island, E. fi 18', long. 59° 28', he some stare of 🕮 about midway be Sable island; soo while reelis

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t successful cast was in lat. 42° 3° 14′ W., 910 fathoms. He had hed the Gulf stream, and as he the depth increased until he rallel of 40°, when he found both of 2,987 fathoms, nearly 3½ xperiments for temperature at here gave at 250 fathoms 71°; 1,000, 36°; and at 2,987 fathoms rate cast was in lat. 39° 12′ N. V., where he found 2,832 fathoms are of 25°. The next attempt insuccessful, the line parting at bottom, on commencing to reel thing; and on making another ng the wire line to the hempen,

d while reeling in, losing 1,630 e, and 1,630 of hempen line, one ometer, and one Massey's sound-Lieut. Berryman had nearly thern edge of the Gulf stream d in consequence of these acci-ed to give up the examination. for sounding was somewhat im-at used on the former voyage. ne was attached so that the turnthe line in descending could not er, and Brooks's plan for detachon striking bottom was applied to form of less resistance than that The self-registering thermometer was always used. These instruspared at the coast survey office registering submarine tempera ng submitted to tests before ce, were found to be accurate. re is ascertained by the expansion 1 of two thin pieces of metal, ina, soldered together, and aftera spiral form, a register being to record the lowest degree of ached. It has been suggested see pressure to which these deliters were subjected when at great the cause of error, but we do not ause them to record a lower temny rate, we feel satisfied that the n in some of the results are enthe sudden check of the moe instrument when descending, ow which causes the index to Two of these thermometers oe used with a view to testing occasion they gave 11° and 11½°; read 10°; the next, 9° and 9½°; the difference was 4°, an agreeole, considering the rough usage sted to.—The result of all these ates less depth than was supposed on or from former soundings. spth, as shown on the chart, apspace on the southern part of m, from long. 67° W. curving th to lat. 41° and long. 49° (S. E. 'Newfoundland), then south as when it turns toward the N. W. ог. п.-20

and then W. to long. 67°. The soundings here are rather doubtful, the greatest actually obtained was 4,580, and the greatest trial without success, 6,600 fathoms. The soundings by Lieut. Berryman, for the purpose of examining the basin between Newfoundland and Ireland, exhibit a moderate degree of depth, nowhere exceeding 2,070 fathoms, and with the soundings taken by others show that a platcau exists in this basin which extends to the south of the Azores, thence S. W. to lat. 20° N., and then N. W. to within 420 miles of Bernuda, with less than 2,000 fathoms on it; that while a greater depth is found between this plateau and both continents to the south of the Bank of Newfoundland and the coast of Ireland, there is a regular descent from each of the proposed terminations of the Atlantic submarine telegraph.

ATLANTICA, the name of a work, by a speculative Swede, Olaf Rudbeck, written in Latin and Swedish, wherein the author labors to prove that the Atlantis of the ancients was Scandinavia, and that the Greeks, Romans, and all the Teutonic branches of the European family, originated in Sweden. It was published in 1675-779.

ATLANTIDES, the children of Atlas, in Greek mythology. The Pleiades had Atlas and

ATLANTIDES, the children of Atlas, in Greek mythology. The Pleiades had Atlas and Pleione as their parents; the Hyades and Hesperides, Atlas and Æthra.

ATLANTIS, according to the tradition of

ATLANTIS, according to the tradition of the Greek geographers, a large island in the Atlantic ocean, to the west of the coast of Africa, and the pillars of Hercules. It was said to possess a numerous population, begotten by Neptune of mortal women. The sea-kings of Atlantis were said to have invaded the west of Europe, and of Africa, and to have been defeated by the Athenians and their allies. To account for its disappearance in later times, when navigators had acquired a positive knowledge of the longitudes where the island Atlantis was supposed to be, the further fiction was elaborated that the inhabitants had become desperately wicked, and the island was swept away by a deluge. Plato mentions this in his Timeus, and says that an Egyptian priest told it to Solon. On the old Venetian maps, Atlantis is put to the west of the Azores and Canaries. Of course, many moderns have identified it with America. The "New Atlantis" is an allegorical fiction of Lord Bacon. It is, like the Atlantis of the ancients, an island in mid-Atlantic, where the author is wrecked, and finds there an association for the cultivation of natural science, and the promotion of improvements in the arts.

ATLAS. I. In Greek mythology, son of Japetus and Clymene, and brother of Epimetheus and Prometheus, who made war, with the other Titans, against Zeus, and was condemned to bear heaven on his head and hands. Some stories represent him as a great astronomer, astrologer, and wise demigod, who first taught man that heaven had the form of a globe. Ovid relates that Perseus, the hero, came to

Atlas and asked for shelter. It was refused, whereupon Perseus, by means of the head of Medusa, changed him into Mount Atlas, on which rested the firmament. II. In anatomy, the first vertebra of the neck, so named because it supports the globe of the head. III. A collection of maps, first so called by Mercator, in the 16th century, because the figure of the mythological Atlas was generally drawn on the title-page.

ATLAS, a mountain system which occu-

a mountain system which occupies the whole extent of north-western Africa, from Cape Ghir to the gulf of Cabes, or little It is divided into the great and little Atlas. The little Atlas is the range nearest the sea-coast; the great is more inland, and borders on the desert. In fact, however, the 2 ranges are one and the same system, though ranges are one and the same system, though sometimes connected only by separate mountains, or ranges of low hills. On the coast, the range skirts the Mediterranean, from Cape Spartel, and the straits of Gibraltar, to Cape Bon, on the north-east of Tunis. The Atlantic shore is sometimes sandy and low, at other times formed by cliffs, which do not attain any great height, except at Cape Ghir. The Mediterranean shore, between Capes Spartel and Bon, is generally rugged, and in places attains a considerable height. Between Cape Bon and the gulf of Cabes it is rocky, but without reachthe gulf of Cabes it is rocky, but without reaching any great elevation. The southern slope of the Atlas reaches the great desert, from which it is separated by a region of sand hills, shifting with every strong wind, and gradually making encroachments on the fertile lands at the foot of the mountains. On the west of the gulf of Cabes, Mount Nofusa, the last castern spur of the Atlas, joins Mount Garian, which extends into the regency of Tripoli. The French geographers include within the limits of the Atlas their own province of Algeria, together with the empire of Morocco, and a part of Tunis. The whole area is 500,000 square miles, including a great variety of surface, mountains, valleys, and extensive plains. The loftiest peaks form a diagonal line, striking across the general course of the mountains from S. W. to N. E. This line begins at Capo Ghir, on the Atlantic rehigh free already acrossical sales form. lantic, which rises almost perpendicularly from the sea to a great elevation. It then stretches lantic, which rises almost perpendicularly from the sca to a great elevation. It then stretches away, E. of the meridian of Morocco, then turns abruptly N. E., and from this quarter 4 important rivers take their rise, the Wady Oum Erberh (Morbeya), the Maloovia, the Tafilet, and the Draha. At this precise spot, the loftiest peaks of the whole mass seem to be brought together, and the most elevated chain runs away N.—The principal chain traverses a runs away N. The principal chain traverses a region entirely unknown, called the desert of Ansad, the boundary line between Morocco and Algiers. Here the name great Atlas is first applied. The natives call it Djebel Tedla. The principal chain recurs in Algeria, where its highest part is called Wanashrees, or Warensenis, and terminates on the banks of the Shelliff, whose valley makes a gap in its course. It re-

appears S. W. of Algiers, in the lot of the Jurjura. From this point, the lows a direction parallel to the so dips again to the S. E., and takes the mountains of Wannooga. Furthe east, we meet it as the Djebel approaching the coast again, it pear the territory of Tunis, under the name Timers, terruinsting at Care Blace. Tipara, terminating at Cape Blance Zibeb, on the north of the city of I height of these mountains has not mined. The highest summits, the E. of the city of Morocco, and other near the Wady Oum Erbegh, and the 1 rarely free from snow. Their attitude reach 9,000 to 15,000 feet. The lit by no means so lofty. The water-shed of the province. The great north from this line force their way lesser Atlas to the Mediterranean, that take their rise on the souther lost in the marshes of the desert. several defiles through the known of which are those of the leading to Terodant in Morocco, and or Iron gate on the east, leading from Constantine. The geological constantine mountains presents old lime nating with a schist, oftentimes 1 well-characterized micaceous schis The stratification of the gneiss is a regular, only presenting organic come schistose clays, alternating w ry limestones; then come limestone clays, and iron sands resting on This formation is particularly dev Oran, and the plains in which th ordar, and the mains in which the ed from it are of great fertility rocks have been found in small There are veins of iron, copper, and petre is found near Terodant. Ab from the same town, excellent maintained. is found. At Elala there are coppositions. The vegetation embraces ricties of both temperate and trops The Atlas was known to the ancies Romans formed several colonies in

ATMOMETER (Gr. armos, vapor, measure), an instrument invented i measuring the amount of water out certain time. It is not now in use. ATMOSPHERE (Gr. armos, vapor a sphere), the body of air which to globe, the gaseous fluid in which

ALMOSPHERE (Gr. erpec, vapes a sphere), the body of air which as globe, the gaseous fluid in which without which life cannot be an dependent are we upon its purity constant, that even when its establishing changed, our health sufficient indeed instantly perish in consequence to provide the great reservoir of gaseous. They come forth from velocates volumes; they silently steal upon visible misseness of marshes; from bodies the poliseness establishing with the



ife-supporting element; as in the cean, there are compensating agents rking to counteract the effects of ous quantities of strange substances, which would otherwise soon destroy which would otherwise soon destroy qualities.—Air consists essentially of tygen and nitrogen, in a state of meixture. But with these are always small proportion of carbonic acid aqueous vapor. In the vicinity of es ammonia is found, too, in small and nitric acid is generated in thunby the chemical combination of and oxygen induced by the electrical lasses, which may be regarded as acci-These, which may be regarded as acciopurities, are soon dissipated in the Ik of the atmosphere, or they enter
combinations, and are precipitated
atmosphere, or they enter
combinations, and are precipitated
atmosphere, or are washed down by the
proportions of the 2 elements of the yvary—whether this is taken from the of the highest mountains, from ex-kins, from thickly populated cities, or rded hospitals—nor are they affected, climate, or weather. In closely cons, exposed to putrescent exhalations, of the air is necessarily much affect-roportion of oxygen diminishes, and ses, as sulphuretted hydrogen and cid, are introduced. Prof. Nicol gives s of air collected in a filthy lane in rhich the oxygen constitutes 13.79 per , instead of 23 per cent., its usual , nitrogen was present to the amount per cent.; carbonic acid, 2.01; and ed hydrogen, 2.99 per cent. Carbonic ind aqueous vapor are more variable reportions; and the former, though the highest altitudes, has sometimes etection in air collected at sea. Its composition is thus given by Brande:

h	By measure.	By weight. 75,55
		23.32
I VSpor		1.03
B acid	0.03	0.10
	100.00	100.00

calculates, from numerous analyses, y measure oxygen 20.90, and nitrogen d Prof. Thomson, in the article "At-" in the "Encyclopædia Britannica," is mean of 10 careful trials a proportune of 79.9735 parts of nitrogen, 65 of oxygen. The near approach of ses to the number 80 of the one and other, cannot fail to strike the attenose who study the analyses made by , Davy, Gay Lussac, Humboldt, and and as a volume of nitrogen is equivne atom, and half a volume of oxygen ant to an atom, the inclination is very consider air as a compound of these is equivalent proportions of 2 atoms of and 1 atom of oxygen. But the differpecific gravity, of temperature, structorm, which usually accompany the

change by chemical combination are here wanting; and, moreover, air is recomposed by simple mixture of its elements, with no evidence of any chemical change taking place. The phenomena of refraction are such as indicate a mixture; and a still more conclusive proof is that air held in solution in water does not consist of the same proportions of its elements; but from the greater solubility of oxygen, it contains of this about 32 per cent., and of nitrogen 68 per cent. We are therefore not authorized in the conclusion that air can be otherwise than a mechanical mixture of its otherwise than a mechanical mixture of its elements.—Carbonic acid gas, increased to the proportion of 5 to 6 per cent., renders air unfit for sustaining animal life. A candle ceases to burn when it contains 3 per cent. of this gas. One may live, however, in an atmosphere containing 30 per cent. of it for a short time, but not without suffering. But if carbonic oxide, which has only 1 atom of oxygen, instead of 2 atoms, to 1 of carbon, is present even in the small proportion of 1 per cent., it may prove instantly fatal. This poisonous gas is generated by the combustion of charcoal in confined places. Carbonic acid is generated by combustion of carbonaceous substances, with free access of air, and by the analogous process of the breathing of animals—an atom of carbon coild access of air, and by the analogous process of the breathing of animals—an atom of carbon unites with 2 atoms of oxygen; and the solid matter takes the form of this invisible gas. By several processes it may be restored to a fixed or tangible shape. Man requires from 212 to 353 cubic feet of air per hour. In breathing, the oxygen in part unites with carbon in the system, and the air expired contains 4½ per cent. of carbonic acid gas. This is immediately dispersed through the atmosphere by the property of diffusibility, possessed in such a remarkdispersed through the atmosphere by the property of diffusibility, possessed in such a remarkable degree by the gases; but if confined in close places, it soon accumulates and contaminates the air. Though this is the heaviest of the gases, and is generated near the surface, it is found in legger proportion in the air of elethe gases, and is generated near the strates, it is found in larger proportion in the air of elevated places, than in that below. The reason ascribed, that this is owing to the plants absorbing it in the lower strata, is not satisfactory, as it is in these strata produced.—Growing plants are the compensating agents, that counter act the noxious influences of combustion and the breathing of animals; as in the ocean the coralline insects as quietly perform their great office of separating from the water the soluble office of separating from the water the soluble contaminating ingredients, poured in from the innumerable rivers that feed it. Plants as well as animals breathe the air, but the effect of this respiration is just the reverse of that of animals. The carbonic acid gas is decomposed in the laboratory of their vessels, the solid carbon is added to their structure, and the pure caygen is expired. It is true, the process is reoxygen is expired. It is true, the process is reversed in the night, but with much less effect. This change in the action of plants at night is the reason why they should not be kept in sleeping apartments.—Oxygen thus appears to be the life-sustaining element of the air for ani-

mals; while nitrogen has the somewhat negative duty of restraining, by its bulky proportions, the too active influence of its fiery partner. Oxygen is diluted with it, as good spirit the water, to make it wholesome. Both the weaker elements, however, have some other uses, being found as constituents of vegetable and animal substances.—Water, moreover, in the form of vapor, has already been noticed as one of the constituents of the atmosphere. It manifests its presence by condensing in visible moisture and drops upon cold surfaces. When the air is warm, its capacity of holding water is great; as it becomes cool, this capacity diminishes, and the water, that is now in excess, appears as dew, or mist, or rain. The atmosphere is said to be dry, when it has not so much moisture in it as it is capable of holding at its temperature; evaporation then takes But let the temperature fall, and the same air, that was called dry, is now damp. The absolute quantity of vapor has not changed, but the relative quantity of what the air is capable of holding, and that actually in it. As the air becomes cool, and reaches a degree at which it is saturated with the water it contains, and this begins to condense upon cold surfaces, this degree of temperature is called the dewpoint. If it is high, the absolute quantity of vapor in the air was great; if low, there was little vapor in the air. The relative quantity was the same in both instances, as it always must be at the dew-point. As the hot airs of the tropics are swept over the Atlantic in the trade winds, they suck up moisture like a dry sponge. Saturated with it, as they pass over the snowy summits of the Cordilleras, and their particles are compressed together with the cold, they shed it, like the same sponge squeezed in the hand. Thus does the atmosphere fill its office as a compensating agent, carrying away the air becomes cool, and reaches a degree at which as a compensating agent, carrying away the excess of waters of the ocean, that, though all the rivers flow into it, it shall never be full feeding, too, the dry places of the earth, that its wells and springs shall never lack their supplies. Air being a material substance, though invisible, possesses many of the physical properties of the solid and liquid bodies, as weight, inertia, elasticity, impenetrability, capacity for heat, dec. A vessel exhausted of air is found to weigh less than when filled with it; and in this manner it has been ascertained that 100 cubic inches of pure and dry sir, at a temperature of 60°, and under a pressure of 30 inches of the barometer, weigh 31.0117 grains. Other gases are referred to air at this temperature for the expression of their comparative weight. Water is 815 times heavier than air; but at the freezing point the difference is as 770 to 1. From its weight result its inertia and the pressure of the atmosphere. It cannot be set in motion without exertion of force, nor in motion be retarded without opposition of force. Its momentum, as with other bodies, is its weight multiplied by its velocity. Air in motion is a

mechanical force, applied to 1 and windmills. The pressure and windmills. The pressure phere is the weight of the col this were alike dense through the upper limit of the atmosp easily calculated from the we inch, and the pressure of 14.6 p square inch. It would be about from the property possessed b bodies of expanding in bulk or rare, in proportion as the fort them is removed, the weight of them is removed, the weight air is not directly proportiona. This tendency of the particles of from each other, as the present them is taken off, is called the air. Its effect is, that every sur air of any given thickness is of weight than the layer of the beneath it. The rate of this demay be thus expressed: when may be thus expressed: when creases in an arithmetical ratio creases in a geometrical ratio, diminishes in the same. For level of the sea calling the vo density or weight 1; at the miles the volume is 2, and the twice the height the volume density is 1; at 3 times the he is 8, and the density 1. But this tendency of expansion, the proved by calculations based a properties to find somewhere properties to find somewhere appears to be not far from 45 surface. The pressure of th made apparent by removing the tube, the lower end of which water or any other fluid. The pressed up the tube to a heigh to the pressure upon its surfac the level of the sea, where the pounds on the square inch, w. feet and mercury 29 inches, elevation, the pressure being I of the fluid will balance it. ment as this tube is the bare the difference of elevation is de different heights of the column calculation being made on the described, and corrected for the latitude of the place, instrument used for the seme the property of water boiling a ture, as the pressure of air taken off. For every 5493 fe vation, it is found that the h degree less. Correction is is be made for the temperature nperate. constructed instrum made to produce very fair reshands. Familiar illustration of the air are afforded by the which is but such a tube as a urnished merel og out the

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qual to its pressure at the place multhe height it is raised, or to the the column of water. There can, be no expedients that will lessen the quired to work a pump, unless they at some form more simple, and which less friction, than the ordinary form ump, and this seems hardly possible. sure of the air is also well illustrated common leather "sucker," which the ke for a toy-a mere disk of soft leatha string knotted at one end passed its centre. When moistened and apits centre. When moistened and ap-any smooth surface, care being taken the intervening air, it is attracted to it tternal pressure. By the same princi-swalk upon the ceiling, and the pa-mpet, and some other shell fish, hold the smooth rock. So great is this that the force exerted upon the body rately sized man is estimated at about afficient to crush him, as it inevitably applied to only a portion of the body; harmless when pressing with perfect everywhere alike—from the external ardly, and from those within outward.
ressure be taken off from any portion,
cupping instrument, and one is imsensible of the power that is exerted parts around, painfully pressing them scant space of the instrument.—Elas-expressed by the law of Mariotte, its r, varies in exactly the same propor-he density of the air. But as air has wed to expand to more than 2,000 usual bulk, and been compressed into one-thousandth-and at these extreme one-thousandin—and at these extreme
f rarefaction and condensation it is
o determine its elasticity with rigor—
nay possibly not admit of full applicame effect of the elasticity of air is seen roofing of houses and bursting outward sin hurricanes. A partial vacuum sduced by the rotary motion of the , the air within expands, and lifts off or bursts open the doors and windows. effect is observed in the expansion of ed in a bladder, and taken from a low great height. The external pressure nced, the air within tends to expand need, the air within tends to expand ume degree of rarity as that without, such force as to burst the bladder. I property, possessed in the greatest by the gaseous bodies, that renders ellent a material for springs, air-beds, dz.—The impenetrability of air is its of preventing another body occupying where it is. The diving-bell is a good of it as also of its elasticity: for where it is. The diving-bell is a good on of it, as also of its elasticity; for ik to the depth of 34 feet, the water orced in, so as to half fill it; at the 100 feet it will be 3 quarters filled; at

On drawing it up, the air will expand and drive out the water.—The capacity of air for heat is shown by its expansion and increased rarity, as it is subjected to the influence of this agent. From the freezing point upward it exagent. From the freezing point upward it expands $\frac{1}{163}$ of its bulk for every degree of temperature. This is easily exemplified by heating air confined in a bladder. Its expansion soon air confided in a bladder. Its expansion soon swells the bladder and causes it to burst. As its bulk increases, its density or weight diminishes. The colder and heavier air around it presses through it, and the more buoyant fluid is lifted up. On this principle were constructed the first balloons. It is this principle that gives rise to the currents of air or wind, the colder bodies flowing along the surface to fill gives rise to the currents of air or wind, colder bodies flowing along the surface to fill the spaces left by the ascending columns. Thus the trade winds blow from the temperate regions toward the torrid equatorial belt. The whirling tornado, and all the phenomena of the winds, owe their origin to local heating and rarefaction of the atmosphere. The rays of the sun pass through the upper strata of the atmosphere, imparting to them no heat. This the air receives only near the surface. As we assend the terrorise of ascend, the temperature diminishes one degree for every 352 feet. Near the equator perpetual snow covers the mountains at the height of 15,207 feet; in latitude 60° it is found at 3,818 feet; and in 75° at 1,016 feet. Did the sun's rays impart no effect to the atmosphere, the great body of it would be seen as blank darkness; but a partial absorption of a portion of the rays takes place, and reflection of the blue rays. This gives the blue color to the sky, while that of the clouds and the rainbow comes from the effect of the light upon the particles of vapor floating in the atmosphere. These colors are too faint to be perceived in any small quantity of the air. It is only by looking into the great depths of the atmosphere that they become visible, as the color of the ocean is only apparent when the waters are seen in

ATMOSPHERIO ENGINE, also called AIR ENGINE, or CALORIC ENGINE, is an engine to transform hear into power by means of air. Repeated attempts have been made since the discovery of steam as a motive power to use air as a substitute, and in the records of the U. S. patent office from 1796 to 1847, we find that patents were granted in 1824, '26, '28, and '29 for atmospheric engines. In the year 1836, M. Transpot natorated in France on atmospheric Franchot patented in France an atmospheric engine, in which a part he called the calefactor was composed of a number of parallel pipes. The warm air after working the piston escaped through these pipes, and the cold air ran in around the same pipes in an opposite direction, where it was partially heated by the caloric from the escaping air. It was a process similar in principle to that of warming the feed water of a steam-engine with the escaping steam. the year 1840, J. and R. Sterling putented, in England, an improved manner of applying this principle. In their regenerator, the heated air expelled passes first through a number of parallel sheets of metal placed close to each other, where it is partially cooled by contact, and secondly through a number of small pipes, around which cold water is constantly running; at the return stroke the same air returns first through the pipes, and then between the metallic plates from which it resumes the caloric left there in the passage outward. In the same year, Franchot patented the use of metallic wires or of metal shavings for obtaining the same result; whether before or after the invention of the Messrs. Sterling we do not know. The Sterlings built a machine after their patent, which has worked practically for several years, burning 2 pounds of coal per horse power in one hour. This machine may be working yet. Franchot and others also built experimental machines. In the year 1850, Mr. John Ericsson took a patent in England for an air engine, and Nov. 4, 1851, he had one granted to him in the United States for the same invention. The followthe pipes, and then between the metallic plates ed States for the same invention. The follow-ing extract from this last patent states what he claims as his invention: "What I claim as my invention, and desire to secure by letters patent, is the working cylinder and piston, and the sup-ply cylinder and piston, of less piston surface, the two pistons being connected with each other, and working together, substantially as specified, in combination with the regenerator and heater, so that the air, or other circulating and heater, so that the air, or other circulating medium, shall pass from the supply cylinder to the working cylinder through the regenerator, substantially as specified, and give motion to the engine through the difference of area of the pistons; and this I claim, whether the air, or other circulating medium, be made to pass on the return stroke from the regenerator to the supply cylinder, or any other receiver, or into the atmosphere. I also claim, in connection with the working cylinder, the employment of two regenerators, substantially as specified, in combination with the valves, or their equivain combination with the valves, or their equivalents, for the purpose of causing the air, or other circulating medium, to pass, during a series of strokes through one of the regenerators to the working cylinder, and back from the working cylinder through the other regenerators, and then reversing the action, as substantially specified. I also claim interposing the heater between the regenerator and the working cylinder, substantially as specified, to heat the air, or other circulating medium, as it passes from the regenerator to the working cylinder, as specified, to supply the heat required. And, finally, I claim communicating the power of the finally, I claim communicating the power of the engine to the working beam or its equivalent, by the attachment thereof to one of the pistons, or piston rols, between the open ends of the two cylinders, said pistons being connected or braced to each other, substantially as specified, whereby I am enabled to render the engine compact, and effectually to brace and connect the two pistons and avoid undue strain, as specified." After making several small machines,

Ericsson proceeded with Messrs. Kitchir to construct a large paddle-wheel as named after himself, with air or ca gines. She went out on a trial trip Jan.
The main shaft of the vessel was 18 diameter, and was cranked in the cent radius of this crank was 3 feet 8 inc the crank-pin were attached two ex rods at right angles to each other, and angles of 45° with the horizon, one r before the other behind the shaft. was connected with a working leam, beam was put in motion by 2 engine engine consisted of 2 vertical cylin above the other, in which moved fastened on the same rod. The lower 14 feet diameter and 6 feet stroke, working cylinder, the other, of a section by half, was a pump for compressing had a reservoir situated above it. voir communicated with the reg the regenerator communicated with ing cylinder, by means of pipes in wi valves properly disposed. Under the of the working cylinder was a furm paratory to putting the machine in n was compressed in the reservoir beautiful to the companion of the way lighted. auxiliary machine, a fire was lighted cylinder, and the piston brought to the of the cylinder. The valves in the then open, the compressed air passe reservoir to the working cylinder, a up both pistons. When the upper a completed, the air introduced in the piston had been expanded by the h piston had been expanded by the hear bottom, and a volume of air equal the pump had been compressed into voir. The valves were now closed, a opened to let the main in the working cape outside through the regener regenerator was a box 6 feet wide in wire cloth, each 24 feet square, the of which the escaping hot air had to this passage the air was deprived of of its heat, and the wires were prog-heated. This heat was taken at the z-by the air coming into the cylindar by the air coming into the cylind reservoir, and the operation was regard over again. The wire used in:
The whole number of meshes for exengines was about 100,000,000. If found best was 12 lbs. per square incompleric pressure, or 27 lbs. The heperature of the air in the cylinder. After passing through the duced to 80° F. Working revolutions per minut passed through the c tons. There was an a at i stroke, the air wo



a and her caloric or atmospheric engine mout of her to make room for a steam-No full and accurate account of her snce has ever been given. In 1836, anchot had his first model built, he ininçois Arago to witness an experiment. areful examination, the great astron-ned round, and in a quiet manner ly friend, if your invention was ab-ould go and say nothing; but no, the is right, the invention is great, and I u have a family whose happiness de-your success in life, or if you do not urself the faith and strength of a marour machine for old iron, and look for a in a counting-house." Franchot negn in a counting-house." Franchot neg-s warning, and at the present day is ting through difficulties the realization ns. John Ericsson is doing the same Fork. In July 31, 1855, he patented ement in air engines, consisting mainly ppression of the air-pump and air-rea separate vessel called a heater, into the working cylinder. The object r-pump he now attains, by using two the cylinder. The first, called the cylinder. piston, has two rods, one on each side are, and the second, called the supply sone rod passing through the centre orking piston. The supply piston is y a cam arranged in such a manner as t accomplish a stroke during the time working piston is passing slowly the it of the crank. With this arrangenecessary to yoke 2 cylinders on the t, which act alternately with their full his plan was simplified, and became of another patent granted April 16, so leading feature of this new imteonsists in operating with only one nich compresses the cold air on one the generator and heater, at the same it is propelled forward by the force of air on the other side. The air entransformed from a primitive singleschine into a double-acting one. The first

to use atmospheric pressure as an transportation, was made in 1810 by a Danish engineer. At that time he the idea of carrying mails in a pipe, ug a vacuum in front of a travelling side of which the letters were to be Years after, in 1832, he conceived the driving cars by the same means. The ng united to the front car by a rod rough a longitudinal opening in the top e, this opening was closed by a water ich opened to let the rod pass, and closed sady for the return trip. The use of a ve made it necessary for the railway to ly level, and for this reason the plan was side. Since this first invention, patents nts have been granted, in France and for valves to close the longitudinal

opening in the tube, for travelling pistons, airpumps, &c., and for several new plans of using atmospheric pressure, or compressed air. The atmospheric pressure, or compressed air. The main difficulty in atmospheric railways is in constructing the longitudinal valve which closes the tube. It must fit with mathematical exactness, as the least imperfection in the closing would amount, for a few miles of pipes, to an opening larger than the pipe itself, and it must be so constructed as to open promptly without be so constructed as to open promptly without requiring much power, when the piston passes along, and to close tight behind it immediately Most inventors have devoted their time after to this part of the subject, and among the 80 different valves which are before us, we find the most ingenious devices, and also the most absurd. In the greater number of them, India rubber, or leather is combined with metal plates to form the covering. The piston rod, whose section is long and narrow, like the water line of a clipper, opens the valve, and lets it close gradually, while a few rollers, attached to the car behind the piston rod, press upon the valve to make it tight, and a greasing instrument fills up the minute openings that remain. The plan of Clegg and Samuda, patented in 1888, was one of the first invented, and is to this day. as good as any. It has been adopted on the at-mospheric railway of Kingstown in Ireland, of Croydon in England, and in 1845 on that of St. Germain in France. At the top of a cast-iron tube, properly strengthened by circular flange eccentric to the tube, there is a longitudinal opening, the sides of which are planed, tapering upward; a band of iron, of the thickness of the upward; a band of iron, of the thickness of the tube, is made to fit in the opening. Over this, a band of leather is placed, extending some distance on each side of the iron band, to which is firmly fastened. The part extending on one side is used as a hinge for the valve. It is firmly pressed, throughout the whole length, against the tube, by means of a bar of iron, and a few screws which go through a rib, cast on the tube for the purpose. The part extending on the other side rests on the tube in a place where it has been placed smooth. Every place where it has been planed smooth. time a train passes over the line, the leather is impregnated with a mixture of tallow and wax, and is pressed by a roller against the tube, on which it sticks, and closes the opening. The closing becomes yet more perfect when a vacuum is made inside the tube, one of the results of atmospheric pressure being then to force the leather against the opening. The piston used by Clegg and Samuda is a cylinder of castiron, made to fit by leather rings screwed at each end. This piston is at the end of a horizontal rod 10 feet long, at the other end of which is a cylinder similar to the piston, and which bal-ances it. To the middle of this horizontal rod is fastened a vertical rod, which passes outside the tube through the opening, and is attached to the first car. Between the vertical rod and the piston there is a space 5 feet long, in which there are rollers of increasing diameters, to open the valve graduelly. After the ver-

tensive acquaintance with facts. As these multiply, we demand to know how they are related and caused, or the reasons why they exist as we find them. In the case of chemistry, the facts and laws of combination were first established. We are chiefly indebted for these to the introduction and perfection of the balance. It results from innumerable weighings, that chemical composition is definite; that is, the same compound substance has exactly the same constituents in the same proportions. The composition of water, for example, is definite and unchangeable. It consists of 8 parts by weight of oxygen, to 1 by weight of hydrogen. Its constitution is fixed and constant, and may be a constitution of the constant of the const consists of 39 parts by weight of potassium, and 8 of oxygen. Common salt contains 35 parts of chlorine, to 23 of sodium. When we analyze them, we get these quantities; when we produce them, we use these quantities. And not only water, potash, and salt, but all chemical compounds, are put together in obedience to certain fixed laws of proportion, different in different substances, but invariable in the same kind of compound. We are thus to regard all forms of matter as mathematically constituted. Not only are the elements bound together in a quantitative order, in the stable condition of substances, but when a compound is broken up, and its elements released from their affinities, they cannot escape the law of nu-merical destiny; they rush into new unions, but merical destiny; they rush into now unions, but still in definite proportions. These proportions are so well established, that scales are formed of combining numbers, opposite each element being placed the number which governs it in all cases of its combination. Thus the number associated with oxygen is 8, which accompanies it in all its allience. It combines with castless it in all its alliances. It combines with carbon, 8 oxygen to 6 carbon, to form carbonic oxide. Another 8 of oxygen may then be added to carbonic oxide, producing carbonic acid. The proportion of oxygen in carbonic acid is a multiple by 2 of that in carbonic oxide. This affords an illustration of what is called multiaffords an illustration of what is called multiple proportions. In nitrous oxide we have nitrogen 14 to oxygen 8. In nitric oxide, nitrogen 14 to oxygen twice 8, or 16. In hyponitrons acid there is nitrogen 14 to oxygen 5 times 8, or 24. In nitrous acid, we find nitrogen 14 to oxygen 4 times 8, or 83; and in nitric acid there is nitrogen 14 to oxygen 5 times 8, or 40.—These quantities, or combining numbers, though widely variable in the several elements, are equal in chemical power. One of hydrogen unites with 8 of oxygen in generathydrogen unites with 8 of oxygen in general ing water, but the oxygen is not therefore 8 times superior to the nyarogen version saturating power, or effective version are exactly equal, and the quantities us honce called equivalents. This equivalents times superior to the hydrogen in a radial g hence called equivalents. This equivalency is universal and reciprocal. The proportions wish which any 2 bodies combine with each (that in which they combine with every er. When 2 bodies combine with a

they are both equivalents of the thin are also equivalents of each other, and are also equivalents of each other, and gether in exactly the same proportion 1 part of hydrogen combines with 8 of and 35 of chlorine combine with 8 of but 35 of chlorine is the very quant combines with 1 of hydrogen. The combines or equivalent number and the appropriate the appropria comes the exponent of its chemiall cases of its combination. T laws of combination apply to comp well as to elements. Thus the equiv carbonic acid is carbon 6 and oxy 8 = 22; for lime it is calcium 20, orygon Carbonic acid and lime therefore und to produce carbonate of lime or mar facts of chemical combination, thus be ted, are the results of experimental tion, and are independent of all s hypothesis. But the human mind is fied with the bare expression of facts, for explanations—for the hidden cans nomena—for principles which will at the effects. There are undoubted rechemical combination occurs in the have indicated. There must certainly which determine combination in the ways, and prevent it from taking ple The atomic theory offers a re signs a cause. The term atom, signition or particle of matter, exceeding and not capable of being divided. as conceived by the chemist, is an minute but indestructible and un particle, and all matter is believed to up of these. In ancient metaphys tion, matter was held to be infini tion, matter was held to be infinitely. They said, we cannot conceive parall, that, if possessing weight, figure, they cannot be halved or discover quantities. Without denying may be conceived as infinitely divergent assumes that, in point of a nature, their divisibility has a list strength of the faith of modern changes with the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be well if the content of the sevietence of atoms may be sevietence of atoms and the sevietence of atoms are sevietence of atoms and the sevietence of atoms are existence of atoms, may be well illuquoting the language of Liebig: "W puting the infinite divisibility chemist merely maintains the firm chemist merely maintains the mraitable foundation mits the existent entirely incontrol of chemistry was ent century by I hand. Starting consists of ultimate the particles he

able particles, he teaches: 1, th of the same element powers are weight; 2, that the atoms of different powers different weight and a power that indicate the weight of any element in the same along the sam any element, is the same as the equivalent number for that elem vague conception of abstract proweight, comp

acific ocean called Polynesia, com-

i,

ether a space that may be equal to outinent of Asia, are found scat-of low islands and reefs of rock, and in one instance of 1,000 miles Il which owe their existence to the coralline zoophytes. Among Among are a great many of the form of a ircular reefs of coral, just rising raves, and inclosing a sheet of is connected with the ocean by aldives, atolls, or atollions. These seldom have a width of more undred yards. Upon this strip thrown up by the waves, which and on this the cocoa-nut trees l send their tall stems far up into e sky. Under their shelter the their huts, not always beyond the waves in the great storms. Each arrow grove is a beach of glitter--the comminuted coral. Withshed by the still waters of the , in the rays of the vertical sun, t vivid green. Without, around gin of the reefs, the never-ceasing ed by the trade-winds curl their reaths; and beyond are the dark rs of the ocean. The diameter of sometimes more than 30 miles, from 100 to 400 feet. The open r from 100 to 400 feet. The open r being on the windward side, mtrance and exit for ships, which still harbors. Outside of the coral th of water suddenly increases to 100 feet; indeed, between neighit is usually regarded as unfathom-edge of this deep water, and in sea rolling more heavily than in te regions, the soft, gelatinous nals perfect their structures, and of the calcareous matter they abe sea-water solid ledges, that withst violent action of the waves r exceeding in grandeur and sta-ks of man. The peculiar form of I great depth to which the coral-sch, it being ascertained that the t work in water more than 120 b subjects of investigation of no It has been supposed by Lyell at the lagoons occupied the crat volcanoes, which had subsided, md the edges of these craters the d built their structures. But the s and extraordinary size of many made this hypothesis quite im-Lyell at last gave it up for the le explanation of Mr. Darwin, sets the difficulty of the coral ex-great depths. This explanation great depths. This explanation the opinion long before expressed the bottom of a large portion of where the atolls are found, was ng. The reefs of coral, originally

commenced in shallow water along the coast of a continent, and around the shores of islands of all sizes, continued to be carried upward after their foundations have sunk to a greater depth than that in which the zoophytes can live; and after the islands themselves have disappeared beneath the surface of the water. These operations—the sinking of the land and the growth of the coral—like most of the great geological changes, take place slowly and insensibly; but the long periods of time required for the accumulation of the alluvial sediments at the mouths of great rivers, which are included in the most recent geological epoch, suffice no doubt for the formation of these atolls. the subsidence not very gradual, the top of the reefs might be carried down faster than the zoophytes could keep them up, and thus they would be lost in the deep waters of the sea. But these operations of nature appear to planned in harmony with each other, and with reference to the great object, which is accom-plished by the coralline animals—the separation from the waters of the ocean of the excess of soluble salts of lime conveyed into them by all soluble salts of lime conveyed into them by all the rivers. Their field of operations is this great area of hundreds of thousands of square miles of the tropical seas. In this the islands are all of coral, except occasionally one of granite, which has not yet disappeared, but has its coral reef encircling it a few miles from its shores. That the bottom of this ocean should existently have been of upfathemarks doubth. originally have been of unfathomable depths, with an immense number of elevated points coming up nearly to the surface, on which the zoophytes could commence their operations, and hardly one of these elevations reaching above the waters, is far more improbable in our present knowledge of the instability of the surface, than that a continent has here subsided, face, than that a continent has here subsided, and, as its hills disappeared beneath the waters, the reef-builders still kept their structures around these hills even with the surface. The outlet was the original outlet of the surface waters that flowed into the ocean; and the tide rushing in and out has ever afterward served to keep it open. The material of the reefs is not keep it open. With this are intermixed alternating all coral. beds of the numerous shells, which abound in these seas. The lower portions of the structures are filled in with a great variety of organic remains, and with fragments of coral. By the action of the waves, the solid substances are ground into fine calcareous mud, like that produced by chalk. This is packed into the produced by chalk. crevices of the dead coral below, and the mass becomes solid and compact as the coralline limestones of ancient rock formations. over the bottom of the lagoons, and of the neighboring ocean, the same insoluble sediment is spread, building up layers of rock, that will probably not differ much from the chalk found

along the English coast.

ATOMIC THEORY. Theory may be defined as explanation of phenomena, and of course presupposes the most intimate and ex-

tensive acquaintance with facts. As these multiply, we demand to know how they are related and caused, or the reasons why they exist as we find them. In the case of chemistry, the facts and laws of combination were first established. We are chiefly indebted for these to the introduction and perfection of the balance. It results from innumerable weighings, that chemical composition is definite; that is, the same compound substance has exactly the same constituents in the same proportions. The compostituents in the same proportions. The composition of water, for example, is definite and unchangeable. It consists of 8 parts by weight of oxygen, to 1 by weight of hydrogen. Its constitution is fixed and constant, and may therefore be numerically expressed. So potash consists of 39 parts by weight of potassium, and 8 of oxygen. Common salt contains 35 parts of chlorine, to 23 of sodium. When we get those quantities when analyze them, we get these quantities; when we produce them, we use these quantities. And not only water, potash, and salt, but all chemical compounds, are put together in obedience to certain fixed laws of proportion, different in the control of ferent in different substances, but invariable in the same kind of compound. We are thus to regard all forms of matter as mathematically constituted. Not only are the elements bound together in a quantitative order, in the stable condition of substances, but when a compound is broken up, and its elements released from their affinities, they cannot escape the law of numerical destiny; they rush into new unions, but still in definite proportions. These proportions are so well established, that scales are formed of combining numbers, opposite each element being placed the number which governs it in all cases of its combination. Thus the number associated with oxygen is 8, which accompanies it in all its alliances. It combines with carbon, 8 oxygen to 6 carbon, to form carbonic oxide. Another 8 of oxygen may then be added to carbonic oxide, producing carbonic acid. proportion of oxygen in carbonic acid is a mul-tiple by 2 of that in carbonic oxide. This affords an illustration of what is called multiple proportions. In nitrous oxide we have nitrogen 14 to oxygen 8. In nitric oxide. nitrogen 14 to oxygen twice 8, or 16. httrozen 14 to oxygen twice 8, or 16. In hyponitrons acid there is nitrogen 14 to oxygen 3 times 8, or 24. In nitrous acid, we find nitrogen 14 to oxygen 4 times 8, or 33; and in nitric acid there is nitrogen 14 to oxygen 5 times 8, or 40.—These quantities, or combining numbers, though widely variable in the several channels, are equal in chemical power. One of elements, are equal in chemical power. One of hydrogen unites with 8 of oxygen in generating water, but the oxygen is not therefore 8 ing water, but the oxygen is not therefore 8 times superior to the hydrogen in neutralizing or saturating power, or effective value; they are exactly equal, and the quantities taken are hence called equivalents. This equivalency is universal and reciprocal. The proportions with which any 2 beslies combine with each other, is that in which they combine with every other. When 2 bodies combine with a third, as

they are both equivalents of the third. are also equivalents of each other, and w gether in exactly the same proportions.

1 part of hydrogen combines with 8 of a and 35 of chlorine combine with 6 of a but 85 of chlorine is the very quanti-combines with 1 of hydrogen. Thus combining or equivalent number attack comes the exponent of its chemical pa all cases of its combination. The an laws of combination apply to compst well as to elements. Thus the equival carbonic acid is carbon 6 and oxygen 8 = 22; for lime it is calcium 20, oxygen Carbonic acid and lime therefore uni to produce carbonate of lime or marks facts of chemical combination, thus bris ted, are the results of experimental is tion, and are independent of all speci hypothesis. But the human min fied with the bare expression of facts. I for explanations—for the hidden causes nomena—for principles which will access the effects. There are undoubted reason chemical combination occurs in the have indicated. There must certainly be which determine combination in these ways, and prevent it from taking place wise. The atomic theory offers a ress. signs a cause. The term atom, signification or particle of matter, exceedingly and not capable of being divided. The as conceived by the chemist, is an a minute but indestructible and un particle, and all matter is believed to be up of these. In ancient metaphysical q tion, matter was held to be infinitely de They said, we cannot conceive partial small, that, if possessing weight, tell figure, they cannot be halved or divide lesser quantities. Without denying that may be conceived as infinitely divided chemist assumes that, in point of fact in nature, their divisibility has a limit tranget of the faith of recluse about the point of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of recluse about the partial stranget of the faith of the fait strength of the faith of modern ch existence of atoms, may be well illustra quoting the language of Liebig: "With puting the infinite divisibility of a firm table foundations of his science, mits the existence of physical at attrely incontrovertible." The of chemistry was announced early ent century by Dr. Dalton, of Manc land. Starting with the doctrine consists of ultimate impenetrable a able particles, he teaches: 1, that of the same element possess exa weight; 2, that the atoms of different possess different weights; and 3, the Ler that indicates the weight of the any element, is the same as the est quivalent number for that elem ague conception of abstract pro-

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its combining number. One is to I stamped upon every particle of if the whole amount of it in the sen coined in the same mint into ectly the same value. Carbon, in is supposed to have its atoms 1 6, oxygen with 8, sulphur with s gives a rational and most satis-mation of the laws of combining they follow as its necessary conse-· if water be formed by the com-oxygen with hydrogen, atom to s composition must be definite and gain, if the atoms of each element ntable weights, they must in all stions exhibit equal and reciprocal placement or exchange can only equivalent proportion. Multiple also result directly from the unity s the least quantity of an element in can be increased only by the addi-s atoms, so the number expressing mantity must be an exact multiple No fractional e atomic number. any element or substance can be se the combining atom cannot be This view offers such eminent adh in the acquisition and retention knowledge, that it has been unirted.

occording to the hypothesis of some, minute, indestructible, and indivies of matter. This speculation rly Greece, and has found sup-n to the latest times. Dalton's the law of definite chemical proy popular among the moderns, bets of chemistry are more easily ex-; just as Leibnitz's false language tals is more readily used than Newnguage of fluxions. But many of speak of atomic weight and of fy by the latter word the centres physical forces act, without mean-whether those forces reside in the breator, in a monad, or in an atom.

of the 17th century, distinguished m with the annexation of lower Spain. He proposed to the Spanish to defray the expenses of an explor-m to lower California, which sailed, mmand, May 18, 1688, with 2 ves-of 100 men, and 3 Jesuits from d landed at La Paz after a fort-Atondo immediately set out for but came into collision with the dians, who refused to supply him ons. He was obliged to depart, but put in at Cinaloa and supplied him-res, he returned to the Californian fected his purpose by getting hold sive bay in lat. 26° 30′, which he runo. Next he built a church, and

Y ANTILLON, Isidoro, a Span-

took formal possession of lower California in the name of Spain. The missionary exertions of the Jesuits were rather successful, as they induced 600 Indians to join the church of Rome, but the general features of the country were not encouraging. The soil was barren, Rome, but the general arren, were not encouraging. The soil was barren, and Atondo returned to Spain after having brought his vessels, men, and the 3 Jesuits safe back to Mexico. The colonization of the new back to Mexico. The colonization of the new country was not fully accomplished until after the expedition of Francisco de Hamarras, in 1694, when Salva Tierra and Father Kino, one of the Jesuits of the first expedition, completed the work begun by Atondo.

ATONEMENT (at-one-ment, reconciliation), a word used by the old English writers to express the closing of a breach between two alienated persons. Thus in Shakespeare,

He seeks to make atonement Between the duke of Glo'ster and your brothers. Further, the agency by which the discord is removed, the act of reparation or satisfaction done, was called the atonement. Thus Johnson uses the verb, "By what propitiation shall I atone for my former gravity?" In a theological sense the word is employed to describe the restoration of harmony between man and God, and the means by which that restoration is effected. In this application the term has been narrowed still more, being technically confined to one peculiar mode of restoring the union beto one peculiar mode of restoring the union between man and his Maker, namely, the expiatory sacrifice made by Jesus Christ. The doctrine of atonement, of a reconciliation brought about between the creature and the Creator, through the agency of expiatory suffering, was common to all the ancient religions. It was founded on the dread of the divine vengeance, prompted by the consciousness of ill desert, which seemed to remove the Deity to a great distance from the human soul, and to change his aspect from elemency to wrath. Sensible his aspect from clemency to wrath. Sensible of an interrupted communion with the Infinite, and feeling themselves to be objects of displeasure, men thought to reinstate themselves, and to recover the forfeited favor of heaven by expiatory rites and sacrifices. The Hindoo expiatory rites and sacrifices. The Hindoos sought to placate the Deity by the blood of animals, and even resorted for this purpose to the offering of human victims. The Bramins laid the sins of the people upon the head of a lorger. But the blood of man as being the liorse. But the blood of man, as being the highest of creatures, was deemed the noblest propitiation, the more efficacious if poured forth freely. He that immolated himself was supposed to expiate not his own sins only, but also those of his kindred. The self-devotion of a those of his kindred. The self-devotion of a great personage, of a king or a priest, was sufficient to make atonement for a nation's guilt. The Chinese entertained the same belief, that they could by timely sacrifices of fruit, grain, or living creatures, bestial or human, avert the calculation which in their indepent averaged. calamities which, in their judgment, expressed the wrath of heaven against their sins. Herod-otus, speaking of the Egyptians, says, that 218

they who offer sacrifices solemnly invoke curses upon the victim, imploring that any evil menso-ing them or the land of Egypt, might be turn-ed upon these devoted heads.—The traditions of Greece and Rome abound in examples of human sacrifices brought as victims or selfhuman sacrifices brought as victims or self-dedicated, to avert public calamity and to pacify the wrath of the gods. And after hu-man sacrifices were prohibited, the belief in the propitiatory efficacy of blood entered into the less barbarous sacrificial observances of the historical periods. The heroic self-devotion of Greek and Roman generals was dictated by the persuasion that the free-will offering of their lives would save the army from destroytheir lives would save the army from destruction. Casar, writing of the Gaula, observes:
"The whole nation is excessively addicted to religious observances, so much so, that persons who are afflicted by the severer maladies, or who are exposed to perils in battle or elsewhere, either slaughter men as victims, or devote themselves sanguer men as vectors, or devote themselves to death, believing that unless life is rendered for life, the immortal gods cannot be appeased."—
The sin-offerings of the Hebrews had, according to the best authorities, a similar expiatory significance. They were brought to propitiate an offended Jehovah. The victim was regarded as exhetitate for the sincer who light many it the a substitute for the sinner, who laid upon it the doom he has incurred himself. Thus in Levit. zvii. 11, it is declared: "The life of the flesh is e blood, and I have given it to you upon the altar to make an atonement for your souls. For it is blood that maketh atonement for the soul." The sprinkling of the blood in the case of a sin-offering, indicating the utter dissi-pation of the life that dwells in it, contains the idea of the substitution of the victim's life or spirit for that of the offender. The belief in a propitiation of the Deity through vicarious sufferings is frequently expressed in the Jewish Scriptures; as, for example, 2 Sam. xiv. 10; Isaiah liii. 4. The notion of transferred or imputed spile is also distinctly accounted spile is also distinctly. inputed guilt is also distinctly conveyed in passages like these: Deut. ch. xxi; Jerem. xxxiv. 18; Levit. xvi. 21; Isaiah xliii. 8. Among the Hebrews propitiatory or atoning sacrifices were statedly offered for the whole people at the New Moon, the Passover, Pentecest, the Feast of Trumpets, the Feast of Tabernacles, and the great day of Expistion. They were offered for the priests and Levites at their consecration. and for the high-priest on the day of Expiration. They were also off the day of Expiration, which were very numerous. The Christian doctrine of atomical the forgiveness of human single obtained the forgiveness of human single opensity itself with the address. nects itself with the older religious, and espe cially with that of the Jews Into an explana-tion of the several views taken by Christians of the way in which this reconcillation has been effected by the Savior, we cannot here,

with propriety, enter.

ATONY (Gr. a privative, and roses, tone or force). This term is applied to a want of force or tonicity in the organs, tissues, and filtres of

the body. It is an incipent a and debility, which, when me termed "asthenio," or feeble Atony in the fibres of the body is a indifference in the mind. It is or positive weakness and di comparative inertness and in from depressed vitality, especially in tractile fibres. Lassitude is a tempe of tone and power in the organ of tone and power in the organs and wo of the body; atony is a continuous tone and power. When lassitudes paired by rest, and nourishment, and usual proportions, there is atony, or weakness and debility; and where it continues long, disease ensues, or the continues long, disease ensues, or the unhealthy weakness which accompany of power to make pure blood, and wat tality and tone enough in the organ on the functions of nutrition fr when made. This is the asthenic st e either the forerunner of a serie the result of long-continued suffinement. Where atony is the re finement. Where arous tivity, too much confinement at he with indulgence in good food shaverage—a wet sheet or a show time; early rising in the open air; temperance and a diet, with useful occupation for the generally bring back tone to the ism and health to mind and both excessive labor and prolonged a atony or indifferent nutrition a fibre in the organs, a more careful continuous treatment is required to feeble and depressed vitality to its Rest of body and peace of mis indispensable, as well as mod-cise, and recreation. Travelli of scene and climate are offer storing health and strength in

of this peculiar nature.

ATOONI, or Arcsi, a tribe of Arabs, between the isthmas of Sec

valley of Kosseir.

ATRATO, a river of New Gran. America. It rises near lat. 5° N., a a nearly due north course for mor miles, to its mouth on the shares of Uraba, or Darien. It is a river of set, from the fact, that the bar at being crossed, it has a wide chann than 35 feet deep for the first 96 s its mouth, with a fall not exceeding to the mile, and that for 45 miles channel exceeding 15 feet in depth tained with little expense; while 6 across to the Pacific occan, from river is separated by one of the less of the Andes, does not exceed a thereabouts, and branches of the 4 the West are stated to almost meet the Pacific, which head in this died Examinations were made in the year. John C. Trautwine, of Philab

several routes across the mountain the view of determining the practiconstructing a ship canal by this nnect the Caribbean sea with the s report was, that any such under-d be Quixotic in the extreme; and d "not entertain the slightest hope canal will ever be found practicable part of the ridge." The statements reight and easy passage across the t various points, he found to be gerated, though it is true that at the San Juan river, a branch of the being brought with the greatest the rapids at the head of canoe Notwithstanding this report, an ras despatched by the United States in October, 1857, under the direct. Craven of the navy, and Lieut. he army, to explore the same route. Darthagena on the 5th November, ected to report to the government um in the spring of 1858. The Atrama in the spring of 1858. The Atra-its whole length runs through a low ion, which in times of freshet is enlowed. At ordinary stages of the iver runs between levees, which are ligher than the swamps behind, and ich in low stages the swamp water is ng down among the accumulation of branches which, mixed with black up the banks of the river. Not a e found from the mouth to the head igation. The first signs of cultivation a 60 miles up the river, at the mouth , but the improvements are of the secription; and nothing better is miles further. Quibdo, in lat. 5° e only town of any consequence on It is a miserable place of nostly blacks, with some Indians and a. It is situated on several isolated gold gravel and clay, in the midst of region, which extends all around. inhabitants, who have never sve never at any one time walked a course of their lives. The temper-The temperregion is excessively close and sulrainy season continues all the year, probably passing in the whole year m. The comforts and even necessized life are almost entirely wanting; merous disagreeable and annoying meeted with tropical life, are here the highest state of perfection. id in fine dust in the beds and banks to, at and above Quibdo, and also of t branches of the river. It is part branches of the river. It is par-undant on the western slopes of the east of the Atrato. Some portions atry are described as of exceeding gold, so that it is not unlikely this become at some time a favorite; district; but at present the difficuluring the necessaries of life, and the

discomforts of the climate, are of too serious a nature for foreigners to resort to it. The gold yearly brought to Quibdo, and sold by the natives to the merchants, amounts to about \$200,000. Platinum is also found in some of \$200,000. Platinum is also found in some of the provinces of this region, and in districts fur-ther east, mines of silver and copper have been worked. Near Bogota are the celebrated eme-rald mines of Mussa. Above Quibdo, the river Atrato receives several branches, of which the Quito is the most important. Were it not for Quito is the most important. Were it not for the incessant fluctuations of this stream, which the incessant fluctuations of this stream, which within a few hours frequently reduce it from its ordinary ample channel depth of 7 feet or more to 5 or 6 feet, or even less, the Quito would present, with the Atrato, an uninterrupted steamboat thoroughfare of no less than 252 miles from the gulf of Darien. This stream is wholly in the gold region, and its branches appear to lie in the richest portion of it. Mr. Trautwine is of opinion that the gold region on the western slopes of the Cordilleras in New Granada, covers some 2,000 square miles, over which gold is now constantly collected almost which gold is now constantly collected almost indiscriminately as regards choice of locality; and that the exportation of it from the eastern and that the exportation of it from the eastern slopes of the same range annually amounts at this time to some millions of dollars—these exportations being through Carthagena to England and France. The great river Magdalena, and its tributary, the Cauca, alike with the Atrato, reach this gold region.

ATREBATES, a people in Gallia Belgica, whose name appears in the modern Artois. They formed a confederation against Casar, and furnished a contingent of 15,000 troops. A colony of them settled in Britain. They resided in the modern Oxfordshire and Berkshire.

ATREUS, a celebrated prince, chief, and hero,

ATREUS, a celebrated prince, chief, and hero, of the heroic and tragic ages of Greece. In the Homeric poems, he and his ancestors, the Pelopidæ, are spoken of, merely, as hereditary hero kings of the Peloponnesus, and he especially as the grandfather of the Atridan brothers, on whose account the war against Ilium was undertaken; without any reference to the horrible tragedies of incest, adultery, murder, matricide, and all unnatural and unutterable horrors, which are ascribed to the fated race by the tragic poets, to whom the awful reproductive crimes and horrors of this doomed family have afforded more subjects than any other similar or secondary legend. To no other family, in Grecian mythology, does so horrible a legend as this attach, though many are full of almost unimaginable horror; especially that of the Labda-cide of Thebes, which comes the nearest to this of the Atrides of Argos, embracing, like it, the crimes of incest, parricide, and fratri-cide, each arising out of the last preceding crime, and, in the latter stages, inevitable and involuntary in the actors; who are represented involuntary in the actors; who are represented as predestined, and driven by a blind necessity to the commission of new crimes, which are both the punishment and the expiation of the ancestral guilt, in the first instance, and which are yet im-

they murder him conjointly in his b

puted as deadly sin to the perpetrators, who are puted as deadly sin to the perpetrators, who are innocent of every thing except being the playthings, tools, and victims of an inevitable destiny.—In this legend, the first crime is that of Tantalus, who slew, cooked, and served up, at a solemn banquet, given to the gods, his own son Pelops, in order to test their omniscience. Tantalus being duly punished, and Pelops resuscitated, the victim of the paternal lops resuscitated, the victim of the paternal crime, after winning and marrying the beautiful Hippodamia, and having by her two sons, Atreus and Thyestes, further aggravated the ancestral curse and crime by the murder of Myrtilus, son of Mercury, who, in his divine vengeance, enforced all the wees which followvenguance, enforced all the woes which followed on the fated races.—Atreus, the elder brother, had by his first wife a son, Plisthenes, who married Aërope, and had by her two sons, Agamemnon and Menelaus, known, from their father's patronymic, as the Plisthenide—from that of their grandfather, by whom they were educated until manhood, as the Atride. On the death of Plisthenes, Atreus married the widow of his son, Aërope; and she was shortthe death of Phisthenes, Afreus married the widow of his son, Aërope; and she was shortly afterward seduced by her husband's brother, Thyestes, who, on the discovery of his foul adultery, fled for safety to Sicyon, in Thesprotia, where dwelt, unknown to him, his own daughter Pelopia. To her, meeting her casually by night, ignorant who she was, he offered violence; in consequence of which she bore a son, Excisting to be rown father. In the mean time Ægisthus, to her own father. In the mean time, twin children were born to Aërope, the offspring of her adultery with Thyestes; and these, hav-ing induced his brother to return home, on pre-tence of pardon and reconciliation, Atreus slaughtered, cooked, and served up to their fa-ther—a repetition, it is to be observed, of the cannibal Pelopidean feast-exhibiting their heads to him, in proof of the nature of his unnatural meal. Next to this horror, Atreus unknowingly marries Pelopia, pregnant of Ægisthus, who is exposed at his birth, miraculously preserved, and afterward recognized by his mother, who at the same moment recognizes her crime, involuntary as it was, and instantly avenges it by committing suicide with the very sword of her own father, which she had snatched from him in the moment of her strugg and which he had at once chal with him, own, seeing it in the hands of 1 Pelopia had given it. During to these events, the Atride, A During too Menclaus, had married, respectively. daughter of Tyndarus, the and Leda. Helen, seduced by Priam, king of Troas, flies to Il Trojan war ensued. Agamemnon by the chief of the confederate kings, a avenge his brother's wrongs, and to reaccaptured beauty. During his absence, thus, being left guardian of the palace, kin wife, and treasure of Ag queen; and on the return or to

ing the deed, as if it were an act of I tribution, for the death of his own and nestra's daughter Iphigenia, whom he rificed, at Aulia, to Minerva Polisa in propitiate the storms, and secure the the wind-bound host. The last act of the wind-bound host. The last act of ful tragedy is the slaying of Ægisthe matricide of Clytemnestra, by her so who avenges his father thus, at th stigation of the oracle of Apollo; if deed he is hunted by the furies, und length, acquitted by Minerva in a sol held on the Arcopagus, and purified tions in the temple of Apollo, which in the end breaks the thread of fat minates the ineffable sins and sorro house of Atreus. This frightful story! ly post-Homeric in its origin; a evidently mythical from beginning: is difficult to conceive how such a time rors should ever have been conceived ined by any human brain. It seems, to bear internal proof of being an e tale, manufactured as evidence of the reconceived superstition, or doctrine, ing inevitable destiny, involuntary repring inevitable destiny, involuntary repring guilt, sin begetting sin, and punishment ad infinitum. On this acceptable for this curious consideration, is the revolting tale worthy to be preserved livion, coupled with the singular influent it possessed on the mind of the Gree dians, all of whom wrote many dram odious subject; and with the fact that est of all their extant works, the Ore logy of Eschylus, is the relation of tacts of the long tragedies of the Athle

ATRI, a town in the Neapolitan ATRI, a town in the Neapolitan Abruzzo Ultra I., situated on a see miles from the Adriatic, and 18 miles Teramo; pop. 6,600. It contains a and several convents. The town is the site of the ancient Hadria, and colony rebuilt by the emperor Hadri family originally dwelt there. True old walls of the town are still vi-mosaic pavements and other relies a have been excavated.

ATRIP, in sea phrascology is ferently to the ancien or the sale. is atrip when it is a perpendicular direction to the copies of the copie limit

ATRIUM. I. In Rom central room of the house In this room at together; here the lady rork with her madens sembled, and here stood The room was which the i overed in th fa temple. The atrium of the temrtas is most frequently mentioned. esiastical architecture, it denotes an before a church, making part of the ante-temple. Penitents and others, to penetrate nearer to the church, atrium to solicit the prayers of the r behalf.

TENE, in the remotest antiquity, Görres, was the name of the counthe lake of Spauta or Ooroomeyah pian sea, bounded on the N. by the the ancient Cyrus, and on the S. lus, or Amardus, now Kizil-Oozen. y which considers the Caucasus as of the human family, the branch the Medes were descended primited this region. Now it forms a ian Armenia, and the Persian provuljan. The writers of classical and Polybius and Ammianus, mention as as a province of Media proper, is fertility.

IY (Gr. a privative, $\tau \rho o \phi \eta$, nourishma, want of nourishment). This mically used to signify the wasting rorgan or portion of the body from rition in the part, irrespective of the rition of the body; as the natural rinking of the reproductive organs sons, even when the body generally e more corpulent. The principle decreases in the organ, when the esuspended, and nutrition slackens ital principle becomes inert. nds, or milk-secreting organs in the romen who have passed the age of g, are sometimes so much atrophied of them only can be found embedded s of adipose tissue or fat.—In man s are only rudimentally developed, ons being never active, and, thereons, properly speaking, atrophied, atal and inert, which is, in a con
, analogous to atrophy. Another aich is not analogous, but very difechnically called hypertrophy, or strition and enlargement of an orof organs, in the body. This also ural, where the vital functions are r special purposes at times, as in t womb, the walls of which become thickness and distended in volume, the temporary uses of gestation and

The active and continuous exerset of muscles in the body, will in-slative proportions of nutrition, and rgement of the organ, as is seen in he blacksmith, the leg of the operathe whole external frame of certain restlers, and athlets. Such enhowever, being normal and consing from increased exercise and nutrition, are not technically termed r; while the temporary enlarge-e pregnant womb, though natural

and normal, being also more or less contingent and accidental, comes within the technical application of the term. In these cases both atrophy and hypertrophy are natural and normal, but in many other instances they are are natural and limb or portion of a limb be artificially compressed for a long time, as the feet of Chinese women are compressed in narrow shoes to check their growth, such limb or portion of a limb, deprived of natural exercise and room to grow, will be depressed in its vitality, and lack the power to appropriate nutrition from the blood; it will gradually decay in size and force, and become what is technically termed atrophied. Disuse alone, without compression, will cause atrophy in the upper or the lower limbs, or even in the whole body; for many persons waste away from morbid inactivity, which brings on by degrees emaciation and debility, resulting in decay of the whole system. debility, resulting in accay of the whole species in the limbs, may depress the vitality of the parts, and diminish their powers of nutrition. This the limbs, may depress the vitality of the parts, and diminish their powers of nutrition. This will cause atrophy, or a falling away of the paralyzed limb. The dislocation of a joint neglected, may, by causing pressure on the nerves, cut off a portion of the innervation necessary to maintain the active functions of nutrition. cessary to maintain the active functions of nutrition in the parts below, and thus depress vitality and bring on atrophy. In children of a scrofulous diathesis, disease in the hip-joint often affects the nerves of the parts and the vitality of the whole limb, diminishing the powers of nutrition, and causing the leg to dwindle in comparison with the one which is not affected. In these cases the atrophy is of a double nature; for the gluteal muscles waste away, and the bones decay in part, before the limb begins to dwindle in its general proportions from the weakened powers of nutrition. tions from the weakened powers of nutrition. Atrophy is always the result of diminished vitality and function, and consequent decrease of the powers of nutrition. The term is generally applied to single organs, limbs, or portions only of the organism, emaciation and decay being used to designate a wasting away of the whole body.

ATROPIA, ATROPIN, ATROPINE (Gr. atroomos,

ATROPIA, ATROPIN, ATROPINE (Gr. arpomos, one of the Fates, whose office it was to clip the thread of human life), a vegetable alkali of highly poisonous properties extracted from the atropa belladonna, or deadly night-shade. It is obtained from the juice expressed from all parts of the plant, but more particularly from the leaves. It crystallizes in white silky prisms, which have a bitter taste, but no smell. They possess an alkaline reaction, reddening litmus paper; they melt at 194° F., and are volatilized at 284°. Their composition is carbon, 70.98; oxygen, 16.36; hydrogen, 7.83; and nitrogen, 4.83. The smallest quantity of this substance, applied to the eye, causes dilatation of the pupil, which continues for several days. In this country the juicy extract of the belladonna is more used in medicine than the alkaloid; and

its properties will be found treated of under BELLADONNA. Atropia was first obtained by Mein, a German apothecary, by digesting the roots powdered extremely fine, for several days in alcohol, and afterward separating the other ingredients by various precipitations. From 12 ounces of the root he obtained 20 grains of pure alkali. Chloroform and potassa are also

used for obtaining its solution.

ATROPOS, one of the Fates of Greek mythology. She is represented with a pair of scales, or a sun-dial, or a cutting instrument.

ATTACA, a musical term derived from the Italian attacare, to attack, and written at the end of a piece of music to show that the succeeding movement is to be performed without any pause. Thus, attaca l'allegro is placed at the end of an adagio which is immediately followed by an allegro.

lowed by an allegro.

ATTACHMENT (Fr. attacher, to seize), in law, the seizure of the person or property. The writ of attachment is of 2 kinds: 1. Against the person in the nature of a criminal proceeding for contempt of court. It may be issued against attorneys, solicitors, sheriffs, and other officers of court, for any misconduct or neglect of duty. The object of the attachment is in such cases to bring the offending party personally into court, to answer for the alleged contempt, and unless he can clear himself he is punishable by fine or imprisonment. purisdiction has formerly been exercised by courts over a very large class of cases, and no precise limit has been fixed to the power. The statute of New York continues the jurisdiction to the same extent that has been hereton to the same extent that has been hereton. fore used. 2 R. S. 534. In the famous case of Yates in New York, in 1810, who was committed to prison by the chancellor for misconduct as a muster, the question was agitated but not definitively settled whether there was any relief upon habeas corpus from such imprison-ment. People r. Yates, 4 Johnson's Rep. 317, 4 id. 337. 2. A writ as for contempt to enforce the civil remedies of parties to suits, or to pro-tect the rights of such parties. In the English chancery this was the only process for forcing its orders and decrees. In this country it has been resorted to by all the courts to enforce interlocutory orders. It is, howe no longer used in New York for of costs or any money d attorneys, solicitors, an-court. Act of 1847,— property was an old 1 English practice to o Alban . a defendant in an action longs also the proceeding know know Attachment, a process that the property of a foreign or al is seized. The proceeding I in a custom of the city of London, we find a custom the city of London. in a custom of the city of London, we find some notice in the books as the reign of Edward IV. tom, an action having b mayor's court against A,

been returned mikil (that is to my, the could be found as a distress to co of defendant), and thereupon, it being as by the plaintiff that another person re London is indebted to A, a writ is in warn such debtor, who is thereafter in ceedings called "garnishee," and if i deny that he is indebted, the debt in 1 of such writ, attached in his hands to the judgment which shall be recovered A. Cowell defines a foreign attachment of foreign goods for a liberty or city in the hands of a thin for the satisfaction of source. It the said foreigner oweth money. It is no trace of such proceeding in a second than London. This for the satisfaction of some citizen ing has been introduced into our cente and some others, and is a common me lecting a debt due by a non-resid has property within the state, such | whether lands, chattels, or debts due being seized at the commencement a tion to satisfy the judgment which sh covered. It is sometimes called truccess, and the person who is indebted property of the non-resident defends designated as trustee. In the state York an attachment may, by the et against the property of a non-resident ant who cannot be served with pre the proceeding is more simple tha process of the eastern states. The distinct proceeding for the attachm erty of absconding, concealed, above resident debtors, which is not an a ort of insolvent proceeding for th all the creditors of the person who is attached.

ATTACK, in its general, strateging, is held to signify the taking of t in any particular skirmish, combet, or pitched battle; in all of which must necessarily commence with a other with defensive, operations, is generally considered the more su consequently, armies acting on the that is to say, in wars of a strict nature, often initiate offenive even in defenive comparison. In the form ined is that the defending the place and scene of ope alation of the enemy, tal ase of operations, as nee and places diffe cted, and for which h pe, positively disadvan we most remarkable in and direct attack campaigns, 1814, d in 1815

was acting sta in the devaded country, at d] mes, and on every occasion; and, astly inferior, on the whole, to vastly inferior, on the whole, to contrived always to be superior, victorious, on the point of attack, the result of both these campaigns ing from the conception or the her. They were both lost from y independent of their plan or exboth political and strategetical, of which were the vast superiority means, and the impossibility that n, exhausted by wars of a quarter should resist the attack of a world # it. It has been said that when e set face to face in the field, that takes the initiative, or in or a, has the decided advantage. or in other however, that those who have view, have been dazzled by the wements of a few great generals, two great military nations, which heir successes to attacks on the stion. Epaminondas, Alexander, sar, and, last not least, Napoleon hatically, attacking generals, and great victories, as, in the main, all their great reverses, in actions needwas assumed the initiative. we every thing to the impetuosity irresistible onset, and to their a following up successes and sites, on the part of their ene-ticiovable ruin. They are by no in the defensive. The history of attick in the world seems to show the attacked army has solid and trance sufficient to make it to re-a, until the fire of the assailants eut, and exhaustion and reaction its turn, the defensive action is t there are few armies, or, inof men, who can be intrusted to the term the Romans, though the defence of walled towns, in offensive field operations elebrated in the defensive; and shows no battle in which, y under reverse and on the defenend attacked and won. ally characteristic of the French mders. The Greeks, on the conmany of their best battles, as thon, Thermopylæ, Platæa, and but the latter especially, on the ing the assault until it slackens, eking the half-exhausted and sur-ts. The same has been the Enggreat extent, the Swiss and Gerrmany ages, and generally success-troops, as it has been in later days serioans. The battles of Crecy, ericans. The battles of Crecy, court, Waterloo, Aspern and Essrol. II.—21

ling, and many others, too numerous to be re-corded, were fought exactly on the same princi-ple; and it may be added that in the war of 1812-'14, the Americans successfully retorted on the English, who almost invariably attacked them, and that too—contrary to their usual them, and that too—contrary to their usual mode—in column, the plan which they had proved to be so valuable against the French, and which they have still more recently proved against the Russians.—The ordinary modes of attack are the following, when two armies are opposed face to face, in the field, and when both opposed face to face, in the field, and when coun intend to fight. First, and simplest, the direct parallel attack, when the assailing force joins battle, at once, along the whole front, from wing to wing, and fights it out by sheer force. Second, the attack by the wings, either on both simultaneously, or on one first and then on the other, successively, keeping the centre retired. This was Napoleon's favorite battle, by which, having caused the enemy to weaken his centre in order to attenuthen his wings, while he kept his own to strengthen his wings, while he kept his own centre retired and fortified by immense reserves of cavalry, he finally rushed into the central gap and finished the action with an exterminating blow. Third, the attack by the centre. ing blow. Third, the attack by the centre, keeping the wings retired and in reserve. This is the most faulty of all attacks, and has rarely been adopted, and, it is believed, never successfully. If an army be forced into this position, it is generally surrounded and annihilated, as was the Roman attacking army at Cannse. It is, on the contrary, an admirable position of defence. Fourth, the oblique attack, invented by Epaminondas, and practised by him, with splendid success, at Leuctra and Mantinea. It consists in attacking one wing of the enemy, with one in attacking one wing of the enemy, with one wing secretly and successively reinforced, while the centre and other wing are retired, but are so manœuvred as to threaten a constant attack, and prevent the defending party from strength-ening its own weak point, until it is too late. This was the favorite method of the Austrian Clairfait, by which he constantly defeated the Turks; and of Frederic the Great, who was wont to say that "he was only fighting Epaminondas his battles over again," in his own finest victories. It is worthy of remark that the victories. It is worthy of remark that the Greeks, the French generally, as well as the Russians and the Austrians, have gained all their best battles by attack of columns; which, when they are not effectually checked and brought to a stand, break through the centre and carry all before them. The Romans, the English and the Americans almost invariable. English, and the Americans, almost invariably, have fought and still fight, whether in attack or on defence, in line; in which formation they have always proved able to resist and hold in check the assaulting column with their centre, until by the advance of their wings they can overlap the enemy's flanks and crush him. It is worthy of remark, that wherever the Eng-lish have varied from what may be called their national order of attack, in line two deep, and have assailed in column, as at Fontenoy and Chippewa, they have suffered disaster. The

inference is nearly irresistible, that the central attack by column is radically faulty against firm and steady troops, although it is sure of success against an enemy of inferior physique and disci-pline, especially if he be demoralized in spirit. pline, especially if he be demoralized in spirit.—
In attacking a redoubt or field fortification, if it
be defended only by infantry, the assailants may
march immediately to the attack; if it be defended also by cannon, it is necessary first to
sllence cannon by cannon. The cannonade is
conducted in such a way as to break the paliconducted in such a way as to break the pali-sades, dismount the pieces, and plough up the parapet, and thus to oblige the defending cannon to be withdrawn into the interior. After the attacking artillery has thus produced its effect, the light infantry, principally riflemen, envelop a part of the work, directing their fire upon the crest of the parapet, so as to oblige the defend-ers either not to show themselves at all, or at least to fire hurriedly. Gradually the riflemen least to fire hurriedly. Gradually approach, and converge their aim, and the columns of attack are formed, preceded by men and carrying ladders. The armed with axes and carrying ladders. The men in the front rank may also be furnished with fascines which both serve as bucklers and will assist in filling up the ditch. The guns of the work are now brought back and directed against the assailing columns, and the attacking riflemen redouble their fire, aiming particularly upon the artillery men of the defence who may attempt to reload their pieces. If the assailants If the assailants succeed in reaching the ditch, it is essential that they should in the assault act together, and leap into the work from all sides at once. They therefore wait a moment upon the brim for h concerted signal; and in mounting upon the parapet they are met by howitzer shells, rolling stones, and trunks of trees, and at the top are received by the defenders at the point of the bayonet or with the butt of the musket. The advantage of position is still with the defenders, but the spirit of attack gives to the assailants great moral superiority; and if the work be not defended by other works upon its flanks, it will be difficult, though not quite unprecedented, to repel even at this point a valiant assault. ed, to repel even at this point a valuable assault.

Temporary works may be attacked by surprise or by open force, and in either case it is the first duty of the commander to obtain by spies or reconnoissance, the fullest possible information concerning the character of the work, its garrison, defences, and resources. The infantry concerning the character of the work, its gar-rison, defences, and resources. The infantry are often thrown in an attack upon their own resources, when they must rely upon their own fertile invention, firing the abatis by lighted fagots, filling up small ditches with bundles of hay, escalading palisades with ladders under the protection of a firing party, bursting barricaded doors or windows by a bag of powder; and by such measures decisively and boldly used, they will generally be able to overcome any of the will generally be able to overcome any of the

ordinary obstructions.

ATTAINDER (Fr. teindre, Lat. tingere, to stain). In the English law this term was applied to the extinction of civil rights, and the forfeiture of estate which followed, when a

person was condemned to death for the felony, or where judgment of cottes been pronounced against him for not up to answer to a capital crime. It might place by act of parliament, called bill of up to the case of high treason, the effect condemnation, outlawry, or bill of up was forfeiture of all the real and protected of the criminal and corrustions. tate of the criminal, and corruption e so as to interrupt hereditary descent civil right. For all capital civil right. For all capital crims I high treason, there was a forfeiture of property absolutely, but of real estate use during life. By stat. 7 Ann, e. 21 eration of which was suspended at first the life of the pretender, and aftersut the lives of his sons, but which suspen repealed by 39 Geo. 3, e. 93), it was that no attainder for treason should at the disinheriting of any heir, or to the dice of any person other than the training the state of the training of the state dice of any person other than the tra self. And by stat 54 Geo. 5, n. 145, of felony (which term designated all punishable by forfeiture of lands and and to which capital punishment was incident), except in contain modifie and to which capital punishment was incident), except in certain specific a person who would be entitled to the the offender upon his death, may cause immediately. In this country the pa-bills of attainder by any state is present the constitution. By statute of the the constitution. By statute of the New York, no forfeiture is caused offence except upon outlawry for tree 8, 701, § 22, and in that case the for of lands only for life, of personal estatute id 656 8 8

lutely, id. 656, § 3.

ATTAINT, a charge of a false very
which a jury of 24 was summens! is
attaint. At common law this process only when the proceeding had writ of assize, and was probably only for the purpose of getting the da a common jury instead of recognities but was afterward extended to all but was afterward extended to all a various statutes. The proceeding has been long obsolete, and was abulished land by 6 Geo. 4, c. 60. A similar act passed in New York, 2 R. S. 421, 1 to ATTAKAPAS, a large and fertile a southern Louisiana, including several Though often mentioned in conversal requested in the leavest of the leavest o

Though often mentioned in converse commercial reports, it is not the letter of any subdivision of the stignantities of segar and molasses are the district and shipped at Franklin.

ATTALA, a county in contral which has an area of 630 square 10,991 inhabitants, of whom 5,412 Big Black river forms its western its surface is undulating, and the sparts, fertile. Its name is taken f the heroine of an Indian romance h briand. Kosciusko is the county ass the productions were 5,631 bales of a the productions were 5,631 bales; 503 bushels of Indian corn, 112 potatoes and 120 hogsheads

ches, 8 newspaper offices, and 590 ing public and other schools.

ing public and other schools.

I. A. Macedonian nobleman, lieutilip of Macedon, lived about 870 as the uncle of Cleopatra, whom ad after his repudiation of Olymthe marriage of his niece was celinsulted the young Alexander by tost an aspiration to the gods for heir to the throne. Alexander nking-cup at the head of Attalus. the part of his lieutenant, and word to chastise his son. After 1 of Alexander, he procured the of his old enemy. II. The first ergamus who assumed the title en 269 B. C., died 197. He nder of the celebrated library of scond only to that of Alexandria.

Prisons, elected Roman emper-19. He was a native of Ionia, but became converted to Arian and was christened by a Gothic ecame a member of the Roman sen-I, at a time when Alaric, king of the ras besieging Rome. Attalus refect of Rome, and Alaric, being a, thought of proclaiming him emral to Honorius, then at Ravenna. be; but Attalus, acting independ-barbarian chief in some things, deposed after a few months' reign. ath of Alaric, Attalus accompanied to Gaul. When in 414 Ataulphus idia, the sister of Honorius, Attalus halamium at the marriage. Ataulto come to terms with Honorius, Attalus emperor once more; but hus's assassination, the next Visi-

ade peace with Honorius. Attalus, protection, fled to Spain, was capdoff, as a punishment, and in order him from writing, and was cond his days on the Lipari islands, rward recalled to Rome, where he

M, is the title of the supreme chief soka, but is still retained only by Don. The attaman was elected public meeting; the o in a general public meeting; the in a general public meeting; the tion was by throwing their fur caps ta, and he who had the largest was chosen. In this way the atta-Cossacks of the Ukraine or of the elected, from the very beginning democratic organization. When entury the Cossacks submitted to tion, the election of the attamans dry the Polish king from whom

d by the Polish king, from whom lassigns of investiture a standard, ommand, and a great seal. After of the Cossacks from Poland and ion to Russia in the 17th century, the served the same rights, and were confirmed according to the former

mode, until the insurrection of the celebrated Mazeppa. After this event the office was suppressed until 1750, when it was restored in the person of Count Razumoffsky. When Oathaperson of Count Razumonsky. When Catha-rine destroyed the organization of the Cossacks of the Ukraine, the dignity of attaman was con-fined to those of the Don. The last elective attaman of these Cossacks was Platoff, often mentioned in histories of the campaigns against Napoleon in Russia, Germany, and France, in 1812-'14. After his death, the emperor Napoleon in Russia, Germany, and France, in 1812-'14. After his death, the emperor Nicholas made the dignity of attaman hereditary in the grand duke, the heir to the empire, and thus abolished the old right of the Cossacks to choose their chief. The commanders of various other Cossack organizations in Russia bear the title of attaman, but only by custom and courtesy. From the word attaman is derived the word Hetman, in ancient Poland, the commander of all the military forces of the nation.

the word *Hetman*, in ancient Poland, the commander of all the military forces of the nation, an office similar to that of grand connetable, in France, previous to the revolution.

ATTAR, or Orro or Rossa, a delicious perfume extracted from the petals of the rose. It is a volatile oil, of soft consistency, nearly colorless, and deposits a crystallizable substance which is partially soluble in alcohol. The best article is prepared at Ghazipoor in Hindostan; but it is apt to be much adulterated with sandal wood and other oils. The whole country, for many miles around Ghazipoor, is a garden of roses, and in the spring of the year presents a most beautiful picture of red and green. The roses are used both for rose water and the oil of

most beautiful picture of red and green. The roses are used both for rose water and the oil of roses. The latter is obtained from the rose water by setting it out during the night in large open vessels, and early in the morning skimming off the essential oil, which floats at the top. The rose water after the removal of the oil is not so highly valued as before. It is estimated that 200,000 well-grown roses are required to produce half an ounce of the oil; and the value of this when it is manufactured is about \$40, and even then it is likely to be adulterated. If

of this when it is manufactured is about \$40, and even then it is likely to be adulterated. If warranted genuine at the English warehouses it sells for about \$50, or \$100 per ounce.

ATTENTION, the act of fixing the mind, in its thinking, upon any one object or class of objects. It is also used to express the mental state when thus fixed. It is usually said to be voluntary, and is defined by Brown to be perception united with science or volition. Attention, however, considered as a mental state, may be involuntary, as when the mind is absorbed may be involuntary, as when the mind is absorbed in the contemplation of one subject, even in spite of effort to distract it, by change of scene or employment. The power of fixing the mind in attention is greatly increased by practice. The slightest occurrences distract the minds of these who are unreconstructed to behits of alone those who are unaccustomed to habits of close thinking. The same thing is observable in children. Napoleon could so command his attention to several different subjects in quick alternation, as to be able to dictate dispatches to 3 secretaries at once while he himself penned a 4th. Sir Isaac Newton used frequently to become so absorbed in mathematical calculations that he must be violently shaken, to hear a call to dinner; and Neander, in the intensity of his thought, often forgot to commence his lecture, after he had entered the desk, and the class were in waiting. But these remarkable instances of attention may sometimes be idiosyncrasies. Johnson resolves genius into the power of attention. In attention there is a loss of consciousness, and so of lapse of time, since the succession of ideas is the natural measure of time.

measure of time.

ATTERBOM, PETER DANIEL AMADEUS, a
Swedish poet born in the parish of Asbo, county of Christianstad, Jan. 19, 1790, died at Upsal, July 21, 1855. His genius, fostered by the influence of his father, a worthy minister of the gospel, and by excellent educational advantages at Linköping and Upsal, was blended with ferwant agrications for the emancipation of with fervent aspirations for the emancipation of the literature of his country. To free it from the shackles of French, and other corrupt influ-To free it from ences, was the ambition which haunted him and some of his fellow-students at Upsal, and and some or ms remov-students at open, and some or ms removes association, established by them in 1807, and in a periodical called the "Phosphorua," which they founded a few years afterward. Thus he had abundant opportunities to express his admiration of German (especially of Schlegel and Schelling), and his aversion for French and modern Swedish his aversion for French, and modern Swedish literature. This brought him into direct an-tagonism with many of the conservative acade-micians, and the literary feed between the two parties was conducted in a spirit so belligerent parties was conducted in a spirit so belligerent that bitter feelings began to destroy the peace of Atterbom, who, by his remarkable contributions to the "Phosphorus," occupied a foremost position, and had to bear the whole brunt of the battle. In 1817 he sought relief in a tour to Germany and Italy, and in 1819, on his return to his native country, we find him officiating as German teacher of the present king of Sweden. Subsequently he became connected, as professor, with his own alma mater, and the last vestige of his former opposition disappeared in 1839, when he was received as member of the same academy, against which he darted, in the days of his opposition disappeared in 1839, when he was received as member of the same academy, against which he darted, in the youth, such terrible arrows from the "Phosphorus." His learning range, and at the university find him successively giving instruction in history, philosophy, metaphysics, and finally, in 1835, in sethetics. Among his tributions to the anti-academical carry days, a drama, in proce, entit he same day, or, the league of the rhymerodest, or, the league of the rhymerodest, or, the league of the rhymerodest the palm. As founder, and for many carried the palm and the carried a marked influence upon mathematical carried the particle and for many carried the palm. As founder, and for many carried the palm and the carried a marked influence upon mathematical carried the carried as marked influence upon mathematical carried the carried as marked influence upon mathematical carried the carried the carried the carried the carried the carried as marked influence upon mathematical carried the carried th he exerted a marked influence upon assistance culture in Sweden. Some of his most exquisite productions, as, for instance the state of productions, as, for instance, the "lover peared in this almanac. He was the introduce sonnets and octaves into B.

His lyrical poems are contained in the contained of the cont

Dilter (collected posms), published at 1836. His Skrifter (confusions), I was treat of history and philosophy. To be spirit of religion with that of the latters was the aim of his theories. The most tant of his other works deals with his from a historical point of view. It has Successful Standar (the successful of Sweden), and constitutes, in fact, his elaborate production. The 6th and has a of this work appeared in 1856.

of this work appeared in 1856.
ATTERBURY, FRANCES, ST 82 prelate, and zealous high churchman di land, and a conspicuous figure in the si troubles of the reigns of Queen Am George I., born at Middleton, in Bulks shire, March 6, 1662, died in Paris B 1732. He was educated at Westminster whence he was elected to a stude Christ Church, Oxford, and in east places distinguished himself by his ch tainments, poetical abilities, an 4 1 aspiring spirit. His first publication Latin version of Dryden's poem of "A and Achitophel," which was quickly by an edition of several Latin poems of arts and in the several of arts, and in the same year appear champion of the church of England, of cuted by James II., and denounced Catholic writers. The title of his Considerations on the spirit of Ma and the Original of the Reform swer to a tract of the same title by ctive Catholic master of un This work, written in a vi cal style, and which first re thor's command of contempt is ranked by Bishop Burnet and defences of the Protestant religi by education and conviction a though his associations at Oxfor with high tories, and high church many other persons of the time ed similar views, swore fealty to the ment of William and Mary. He son tered into holy orders, but continues dence at Oxford, and became one of dence at Oxford, and became one batants in the critical warfare which between Boyle and Bentley, betw-and Cambridge, about the epistles Charles Boyle, a student of Christ a nephew of the philosopher Be-published an edition of what were letters of Phalaris, an inhuman tyr, centum in the 6th century before gentum in the 6th century before provoked the notice of the gree the age, Richard Bentley, by allusion to him in his preface, lingly issued a small dissertation adduced abundant evidence the control of were spurious, that their Greek the degenerate and feeble Greek 4th century, and that the critical nished by the new edition was e

Bentley was to bridge man, and his the was deemed to musck upon the scholar-ger Christ Church, Oxford. The men of the college. college, disper in the profes over the kingdom, pow-, in politics, in society, the honor of their coljoined to vindica The name of Boyle was retained upon title-page of the answer to Bentley, but the and all the learning which could be musprincipal champion, however, was Atter-ty, and though he knew but little Greek, he wrote the larger part of the volume in so classical learning. Bentley, who would be specified assertions, brilliant rhetoric, and and ludicrous personalities. The whigs could have rejoiced in the discomfiture of the classified any thing which looked at all a victory of their university, but the gentlewise of the public was in praise of the rhemance of Atterbury. Bentley spent 2 in writing an answer, which will always valuable to the student of Grecian antiquity, proved, beyond all question, that though it proved, beyond all question, that though isrbury wrote finely, he was yet wholly orant of the subject, and that he was enwas entirely wrong on every point involved in the dis-sion. Meantime, the restless and ambitious and of Atterbury had become disgusted with a quiet life at Oxford. He felt himself, he id, "made for another scene, and another at of conversation." He left the university in 1831, and began to preach in London, where is graceful and powerful delivery, and clear and elegant style, at once rendered him popular, and gained for him an appointment as one fithe chaplains of William and Mary. His physical defence of high physical decrease incompanies. Thement defence of high church doctrines in-volved him, during the next 10 years, in a series of controversies. As a member of the lower house of convocation, he sought to raise the power, and extend the privileges of this house, and to make it more independent of the evil power and the episcopal order. He wrote in power and the episcopal order. He wrote important of which was entitled the "Rights, Rowers, and Privileges of an English Convocation, Stated and Vindicated," and was in reply to Dr. Wake, afterward archbishop of Cantachury. These pieces were written with acrimony, and exhibit all the artifices of the content of the troversialist, but their ingenuity and ability were acknowledged by his opponents, Hoadley and Burnet. He received the thanks of the lower gree of doctor of divinity from the university of Oxford, though he was not then of suffi-cient standing to have obtained it in regular course. On the accession of Queen Anne, he became chaplain in ordinary to her majesty, and 2 years afterward dean of Carlisle. During the

ascendency of the whig party, he was indefati-gably active in the lower house of convocation, of which, in 1710, he was elected prolocutor. In 1710 the famous trial of Dr. Sacheverell took place, and Atterbury signally displayed his talents in turning it to the advantage of the tories. He was thought to have composed, in great part, the eloquent speech delivered by Sacheverell at the bar of the house of lords. The tory party now had in its service the ablest writers of the time, and of these writers no one was more active or effective than Atterbury. Upon the change of ministry which followed, and the elevation of the tories to power, he was rewarded by being made canon of Exeter cathedral, preacher at the Rolls chapel, and in 1712 dean of Christ Church. was welcomed as the head of his old college with every mark of honor, but his domineering and contentious spirit soon gave great dissatis-faction. His early friend, Smalridge, succeeded him in both his deaneries, and is said to have complained of his lot in being obliged to carry water to extinguish the flames which Atterbury The latter was soon removed from Christ Church, and made a bishop, as his enemies said, because he was so bad a dean. On Lord Oxford's recommendation, he was promoted to the bishopric of Rochester, to which the deanery of Westminster was then attached. He now aspired to the primacy, and had a vacancy occurred at this time; he would probably have been raised to the archbishopric of Canterbury. But the sudden death of the queen, and the accession of a house known to be partial to the whigs, disappointed all his hopes of further advancement. In the moment of trepidation after the queen's death, he besought Bolingbroke and Ormond to take measures for establishing and Ormond to take measures for establishing the pretender upon the throne, and offered himself to proclaim him, in full canonicals, at Charing-cross. No plan, however, had been matured, and Atterbury, who alone was fearless and resolute, declared, with indignation and grief, that "never was better cause lost for want of spirit." He was received with distrust and coolness by George I., and soon evinced his disaffection by refusing to sign the loyal declaration of the bishops during the rebellion in 1715. At the same time he employed all his eloquence in the house of lords in opposing the measures of the court and ministry, and drew up some of the most violent protests against them. He also wrote sparkling and bitter pamphlets for popular distribution. Long suspected of having plotted for the restoration of the ejected family, and of having been, at least, in indirect communication with them, he now engaged directly in a correspondence with the pretender. He was charged by a secret committee of the house of commons with being the pretender upon the throne, and offered him committee of the house of commons with being concerned in a plan for domestic insurrection and foreign invasion. The scheme was well matured, but it came to the knowledge of the English government through the regent of France. The evidence against him was deem-

ed sufficient to justify his arrest and committal to the Tower, Aug. 24, 1722, amid much popular excitement. In the following March a bill of pains and penalties was brought against him, having for its object his deposition and banishment. This bill passed the commons without much discussion, the bishop making no defence in that house, but the contest in the house of lords was long and sharp. Atterbury there make for the last, time in his own defence and lords was long and sharp. Atterbury there spoke for the last time in his own defence, and his powerful and touching eloquence, and firm demeanor, produced a great effect. When the house divided, there were 43 against, and 88 for the bill, and on May 27, the king, it is said, reluctantly signed it. That Atterbury was guilty of the crimes charged against him was guilty of the crimes charged against him cannot be doubted, but it has become the general opinion that the matter was judged at the time with partisan vehemence, and that though the proofs which were adduced against him might have been sufficient legally to convict him, yet some of the ancient forms, designed to guard political trials, were dispensed with. Attersome of the ancient forms, designed to guard political trials, were dispensed with. Atterbury received the news of his fate with fortinde and composure, and took an affecting leave of the friends whom he loved. On the next day, June 18, he was embarked on board a man-of-war, and conveyed to Calais. Nearly every court of Europe was occupied with the schemes of the pretender, and Atterbury became his ablest and not least active partisan. After residing a short time at Brussels, he fixed his about and not least active partisan. After residing a short time at Brussels, he fixed his abode at Paris, where he consoled himself in corresponding with eminent men of letters, and became the most discreet and efficient of the promoters of the Jacobite cause. Yet James was not wise enough to put all confidence in his surpassing genius, and Atterbury had too much spirit to be willing to continue counsels which passed unheeded. He quitted Paris, and resided for nearly 2 years in the south of France, cheered by the home of a wish from his belowed. cheered by the hope of a visit from his beloved daughter, Mrs. Morice, who was languishing under consumption, but for whom a milder climate was prescribed. The anxious wish of the daughter to see her father once more before ahe died was vouchsafed her. She met him at she died was vouchsafed her. She met him at Toulouse, was able to share his conversation a few hours, but died in his arms the same night. Atterbury hardly recovered from the heavy affliction. He was recalled in 1730 to Paris by the pretender, and again courted himself in behalf of a desperate cases, but his stormy life was near its close. At this time he published one of his most admirable letters in rethrence to a charge made against his edition of Lord Clarendon's history, that noble preduct of the old monarchy, from which he had derived his own principles of loyalty. He alluded to the own principles of loyalty. He alluded to the coincidence that he and Clarendon were the only 2 subjects of England who had b oon t ished and deprived, by act of parliament, of all intercourse with their countrymen. He lived but a few weeks after this, and his body was permitted to be brought to England and buried. m Westminster abbey.

probably inferior in talents to no en contemporaries. Few men have over the English language with greater a strength. He cherished, while it we power, the society of the best posts of and his counsels and conversation a teemed and sought by them. He was mirer of Milton, before the merits of that been generally recognized. Peps ludes to him:

How pleasing Atterbury's softer hour. How shined his soul unconquered in that In his political views he steadily ope accession of the house of Hanover; taking the oath to that house, he yet and conspired for its overthrow. I his political career and his conduct it versy he was often impetuous and the yet his gentleness in congenial society devoted love to his daughter, shed light around his character.

ATTERSEE, or KAMMERSEE, a lab Austria, 12 miles in length from nord and 8 in width. It lies 40 miles & Lintz. From its northern extremity giver Ager.

river Ager.
ATTIA LEX, a law proposed by tribune, Titus Attius Labienus, 64 I the Roman people, and not the I should have the power of appointing cant pontificate.

should have the power of appointing cant pontificate.

ATTIO, pertaining to Attica in its principal city, Athens, a tests the possession of the qualities for Athenians were remarkable, as Attic salt, Attic style, Attic and Corinthian orders, and by some in the Doric.—Attic Ouders, a kind used over a larger order, to complete ing, never with columns, but will small pilasters.—Attic Story, the tof a house with small windows, disbove the cornice.

ATTICA, the name of a triangular in southern Greece, containing all square miles. Its east side is boun Ægrean Sea, the west by the Saroni the north by the mountains which from Bosotia and Megaris, viz.: the and the Œnean range, or the ŒParnes, which terminates at the east. From these mountains brane into the interior, dividing the terminate of the Bay of Eleusi the Cerata forms the Eleusinian amplain. Pentelicus, branching from Hymettus, separated from Pentelicus row valley, bounds the plain of the east and south-east, Parnes on and Ægaleos and the Saronic Gulf of South of Peutelicus, and east of Hythe Mesogne, a midland region, pur and purtly a tract of undulating sur plain of Marathon, forming part of the content of Marathon, forming part of the content in the mesogne, a midland region, pur and purtly a tract of undulating sur plain of Marathon, forming part of the content in the content of the content of the mesogne, a midland region, pur and partly a tract of undulating sur plain of Marathon, forming part of the content of the content

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orth-east angle of Attica, bounded and Pentelicus on the north-west, rest, and by the sea on the east., or coast district, embraces the or coast rtion of Attica, from the promoner on the west, round the foreland
Brauron on the east. The line of erata to a point north of Marathon, o miles. It is included and 421° north lat, and 411° and 421° om Greenwich. Attica terminates countainous region, anciently called nons for its silver mines. It is dis-5 natural divisions, the Eleusinian an plain, the Athenian plain, the nighlands, with the plain of Marasogma or midland, and the Paralia,
The principal rivers in Attica The principal rivers in Attica, than small streams, are the Cephis-Athens, running across the plain rest direction, the sources of which s and Pentelicus; the Ilissus, whose in Hymettus, running south of south-west direction. Two or three s flow into the sea on the eastern incipal of which was the Erasinos. the tillable parts of Attica, though ght, was in ancient times made live. It is less so now, partly on ive. It is less so now, partly on defective agriculture, and partly defective agriculture, and partly trees have been so generally det the supply of moisture is greatly and the streams have shrunk conithin their original dimensions.

us produced an inexhaustible supplement marble and its apparatus. lent marble, and its quarries fur-laterials for the principal structures They have been reopened in remarkle. Marble was also procured tta, and from Eleusis. Beside egetables, Attica produced grapes, wes, of excellent quality, and the many of Mt. Hymettus; but she to depend on forming supplies for to depend on foreign supplies for the part of the food consumed by the The commercial genius of the arly developed by their situation, time tastes of the people, and by t silver currency furnished from Laurium, and wisely maintained, made the importation of articles and luxury easy. The port of one of the busiest commercial one of the bull. The ancient were very fond of country life, with pleasant dwell-The ancient was covered with pleasant dwell-ltivated farms, and beautiful gar-sconomy of a well-regulated Attic charmingly described by Xenophon, ch of Ischomachus. It has been a the article on Athens, that the or towns of Attica were early one constitution. Athens was the the inhabitants of Attica were tizens of Athens, having a right to

assemble in the city and take part in the political, judicial, and legislative proceedings there. The oldest communities of Attica were Cecropia, Tetrapolia, Epacria, Decelia, Eleusa, Aphidna, Thoricus, Brauron, Cytherus, Sphettus, Cephissia and Phalerus. Another division was that into the 4 Ionic tribes, which, under various names, existed to the time of Clisthenes, who reorganized the popular body into 10 tribes, bearing the names of Erechtheia, 10 tribes, bearing the names of Erechtheis, Ægeis, Pandionis, Leontis, Acamantis, Œneis, Cecropis, Hippothoontis, Æantis and Antiochis, from ten of the ancient heroes. In 807 B. C. from ten of the ancient heroes. In 807 B. C. the number was increased to 12, by the addition of the Antigonias, and Demetrias, in honor of Antigonus and Demetrius. Antigonias was afterward changed into Ptolemais and Demetrias into Attalis. In the reign of Hadrian, the Hadrianis was added to the 12, in grateful extraorded great of his heroface. in grateful acknowledgment of his in grateful acknowledgment of his benefac-tions to Athens. The tribes were divided into-demes (see article on Athens), small local divi-sions, of which the number differed at different times, 174, according to Strabo, having been mentioned by Polemo, a writer of the 3d century B. C. About 160 names are known, and the position of a considerable number of them is ascertained. Both tribes and demes their is ascertained. Both tribes and demess had their local and their special affairs, with which the whole body of the people had no particular concern. In all official documents it was the custom to add to the name of a citiit was the custom to add to the name or a dis-zen that of his father in the genitive case, and an adverb, designating the deme to which he belonged. Sometimes the name of the tribe was subjoined.—The population of ancient At-tica has been variously estimated. According to the careful computation of Boeckh, the whole number, in the time of Demetrius Phalereus, 309 B. C., was 500,000, of whom about 135,000 were free, and the remainder were slaves, making the proportion of slaves to the free nearly 4 to 1. During the Roman period, Attica shared in the fortunes of the capital. Eminent personages, belonging to the nobility of Rome, were fond of having country residences in the neighborhood of Athens. In the middle ages, the condition of Attica was but imperfectly known. It formed part of the Thema of Hella in the Byzantine empire. During the Frankish domination it was part of the territory of the dukes of Athens. When Greece was conquered by Mohammed II., in 1456, Attica, with the rest of the country, was subjected to the burthens of the administrative system of the Turks. The Timariot system does not appear to have been introduced into Attica. The plain of Athens, as we have seen in the article on that city, was often the battle-ground of the war of the revooften the battle-ground of the war of the revo-lution, and the population of Attica was greatly diminished. Since the reëstablishment of or-der in the country, and the organization of the kingdom of Hellas, and especially since the city of Athens became the capital of the country, the population has made decided progre and a considerable part of the territory l

been brought under agricultural operations. Attica and Bosotia form one of the ten popular or departmenta, into which the kingdom is divided, and Attica is a diocese. The population of the nome, in 1855, was 95,229, of whom considerably more than half must have belonged to Attica. Modern Attica includes Megaria, and the islands of Ægina and Salamis. The principal places, beside Athens, are Pireus, Liopesi, Marcopoulo, Keratia, Marathona, Kalamo, Marusi, Menidhi, Chassia, Leosina (Eleusis), Vilia, Megara, Kolouri (Salamis), Ægina (in the island), Angistri. The climate of Attica is moderate and healthful. The aspect of the country is generally somewhat barren, but there are extensive olive groves, north of Athens, and parts of the mountain slopes are tolerably well wooded. Early in the spring, however, there is a wonderful and beautiful outburst of plants and flowers, up to the very surface of the Aoropolis. Attica still produces excellent wheat, clives, grapes, and Hymettian honey; and might be made by a judicious system of agriculture, and the wise employment of capital, as productive as in ancient times; so that instead of 50,000, it might support 500,000 inhabitants. The peasantry are, however, an honest and simple-bearted race; not yet well educated, or at all skilful as tillers of the earth. They have none of the modern improvements on their little farms, and few of the conveniences of civilization in their houses or huts. But efforts are making, which must, in a few years, be successful, to diffuse among them practical information, and to raise their condition in respect to the comforts, if not the luxuries of life.

ATTICUS HERODES, Turkurus Claurius, a

ATTIOUS HERODES, TERRIUS CLAUDIUS, a man of great wealth and accomplishments, born during the reign of Trajan, at Marathon, and hence called Marathonius. He claimed descent from Cecrops and Militades, though, in his father's time, his family, through misfortune, had fallen into poverty and obscurity, from which they were suddenly raised by the accidental finding of a great treasure. Through this means the father of Atticus was enabled to secure for his son the services of the best teachers, and so well did Atticus profit by their instructions that he became renowned for his learning and ability, and obtained, finally, the office of tutor of the sons of Titus Antoniums. He studied rhetoric under Scopelian with such success as to win for hisself the surnance of the "Tongue of the Greeks," and the "King of Eloquence;" but his Riversy remains full to attest the fame conferred by these titles to attest the fame conferred by these titles of Asia. While in these positions he used his immense wealth to construct costly public beths, canala, and public buildings. He married Asia. Canala, a Roman lady, upon the occasion of his grief so far as to overlay all the bright celers of his house with black Leather markle.

An inscription upon a statue erected by to her memory excited much do among the antiquarians of the 17th a —True Pomponius, a Roman of the trian order, has come down to pe as one of the most honorable, high-ine selfish, and truly cultivated men of nation. Born 109 B. C., he was a case by the company of Cicero. During the civil was be Sylla and Marius he spent about 29 p. Athena, and thus perfectly mastered the language, rendering many services to the nians, who raised statues in his hone; his surname Atticus. Recalled by 67th year 63 B. C., he resided in Rome, as celebrated for his hospitality, numbered his friends such men as Hortensius, in Cassar, Brutus, and above all Cloro. A friend of Augustus, married Atticushis He had no ambition, never accepted to offices proffered him; made a general his great wealth, during the civil we able to be on friendly terms with all and died at the age of 77, starving the death to avoid other physical sufficient to avoid other physical sufficient for a several other works, as the "History trious Roman Families," one on the of Cicero, all of which are lost. His been preserved from oblivious by the dressed to him by Cicero, and by a written by Cornelius Nepos.

ATTIGNY, a very old town in the ment of Ardennes, N. E. France, a bank of the river Aisse. Thought

ATTIGNY, a very old town in a ment of Ardennes, N. E. France, a bank of the river Aises. Though tively unknown, it had a great impader the Merovingian and Carloving being the summer residence of same Here it was that the successor of Chathe emperor Louis le Debonnaire, he mit to a public penance, in explained death of his neglect Represent his case.

the emperor Louis is Debounaira, he mit to a public penance, in expire death of his nephew Bernard, king of ATTILA, called by the ancient Errar, in the Magyar language Am Mountzouk, was a Hun, of royal lineage 434, with Bissia, his brother, he succe their uncle, in the leadership of the The Huns at that time were establish nonia, and extended over ancient Sarmatia to the Dnieper and the Debruthers threatened to invade the pire, whose emperor, Theodosius II pence only by a heavy ransom. Ver power of these barbarians came to felt in both Asia and Europe. Att the Huns that he had discovered the Huns that he had discovered the himself the Scourge of Gesl, and he looked on him with superstitious awhe ordered the murder of his brothstate of the divine will, and the free

٠٠, ATTILA

this moment Thorismund, son of Theodoric,

victory. In a short time he exity over countless tribes of Gerhis, from the Baltic to the Black
regoths, Vandala, Gepidæ, Hew Northern Slavi, and the Slavi
with many Cancasian, and transorthern Asiatic nomada, obeyed
a said that he concluded an alChinese amperor. He invaded Chinese emperor. He invaded ing defeated in the plains of rned toward the eastern empire. He invaded which is said to have counted nostly cavalry, he overran Illyregion between the Black sea tic. Theodosius II. was overtic. Theodosius II. was over-accessive battles, and Constantiscape to the ignorance of the ne art of sieges. Thrace, Maceece were devastated, and more most flourishing cities destroyed. ained peace again only by an om. Ohrysaphius, one of the minister of the imperial court, a companion of Attila, to murthe murderer confessed his pur-tentinople trembled in fear of who, however, only over-eror with bitter reprosches mperor ry, and demanded the head of About 451 Attila turned west With a countless army of barbach led by its own chief, he h Germany, where, among others, Franks joined him, crossed the al, and the Seine, ravaging coun-ying cities. Leaving Paris unnying cities. Leaving Paris ched the Loire, and encamped of Orleans. The inhabitants, beir bishop, Anianus, resisted the he assailants, and were soon re-14, by the approach of the army ommander of the Romans, with Visigoths, under their king, Theo-ia, under Meroveus, the Burguni, and other barbarians. mpagne, and took his stand in the ns, where Chalons-on-the-Marne Here he fortified his camp, surith a breastwork of wagons.

the soothsayers, and their an-he would lose the battle, but the their chief. Not daunted by the a addressed to his companions a , pointing to their enemies, and e Goths, who, as he said, had Huns from one end of Europe He spoke of their share in the sefore them, and of the rewards ictors. The Huns vociferously led on, and precipitated themrenemies, following Attila, who throw his javelin. Both the with incredible rage and obstitues of the Romans became the lines of the Romans began ing of the Visigoths was slain, were almost sure of victory. At

this moment Thorismund, son of Theodoric, who commanded a reserve on some neighboring heights, hurled down his troops with such fury that the Huns, pressed on all sides, could scarcely reach their camp. There Attila ordered all his treasures to be put in a heap, and determined to burn himself on the pile at the last extremity. This was the most murderous haven because in Furcacca history. battle ever known in European history; it was fought in the last days of June, and is recorded as the battle of peoples (Völkerschlacht). A small rivulet, running through the plain, was swollen to a mighty torrent of blood, in which the combatants quenched their thirst; 160,000 men were left dead on the field. It was said that the spirits of the slain continued in the air that the spirits of the state contained in their furious struggle, a legend which has been immortalized by the pencil of the German Kaulbach. The victors did not, however, push their good fortune to the extreme. Attila re-Kaulbach. The victors did not, however, push their good fortune to the extreme. Attila retreated toward Germany, harassed only in his rear and flanks by the Merovean Franks. Gathering fresh hosts the following year, Attila invaded Italy. He said he had come to take as his bride Honoria, sister of the emperor Valentinian III., who had sent to him a wedding-ring, urging him to claim her, and half of the empire as her dowry. The emperor was frightened, and vain proved the prayers and frightened, and vain proved the prayers and offers of his ambassadors. Attila destroyed the frightened, and vain proved the prayers and offers of his ambassadors. Attila destroyed the cities of Aquileia, Padua Vicenza, Verona, Bergamo, Concordia, whose houseless fugitives found refuge in the lagoons of the Adriatic, and founded Venice. The Huns passed into Liguria or Lombardy, and pillaged Pavia and Milan, and Attila established his camp in the plains of Ambules, at the confinence of the Milan, and Attila established his camp in the plains of Ambulea, at the confluence of the Mincio and the Po, in the vicinity of Mantua. Nothing could have prevented him from over-running the rest of Italy. In this camp he received an embassy from the emperor and from the Romans, headed by the pope Leo I. The sanctity of the pope is said to have impressed him and the chroniclers say the spirits of the him, and the chroniclers say the spirits of the apostles, Peter and Paul, appeared to him with menaces, a legend immortalized by Raphael. It is said, likewise, that the companions of Attila were awed by the example of Alaric, king of the Visigotha, who had died shortly after having plicing. laged Rome, and fearing the same fate for th chief, advised him not to advance toward the holy city. In July, A. D. 452, Attila having concluded a truce, returned to the Danube, meditating for the next year a new invasion of the eastern empire, or, as some maintain, a return to Italy. But he died in 458 in his capital or camp in Pannonia, the night after his nuptials with the beautiful Ildico, whom he had married in addition to the many wives he already possessed. The courtiers found him in the morning struck by apoplexy, and at his feet the weeping and desolated spouse. His body was put in a coffin of iron, over which was one of silver, and a third of gold. He was buried secretly at night together with a mass of treasure and arms, and the property was the day of the secret was a likely of the secret was the secret was a likely of the secret was the secret was a likely of the secret was the secret prisoners who dug the grave were killed.

Huns, also, made fearful incisions in their faces, saying that such a hero should be wept with blood. In person Attila was short, with a broad chest, large misshapen head, small, deep-eet and piercing eyes, flat nose, and tawny complexion. His movements were imposing and menacing; his voice powerful but agreeable. He was by turns sincere and hypocritical, temperate and dissolute, humane and cruel, just and unjust according to his interests, brave but not reckless, deep in his schemes, quick in execution, un-daunted, unscrupulous, irreligious, and terrible in his wrath. His camp, capital, or castle, called Etzelburg, was situated, according to all probability, on the site of the city of Buda, in Hungary. It was an immense edifice of wood, with numerous towers, and surrounded by a wall of planks. The celebrated consession of mainly poems, known as the *Niebelungen*, is mainly poems to the feasts poems, known as the Nicosiungen, is mining devoted to Etzel or Attila, and to the feasts and pastimes of his court, where the barbarian kings of various tribes resided. The passage kings of various tribes resided. The passage of Attila through European history marks the great movement of the northern nations previous to the destruction of the Roman world. Whole tribes changed their residence, and active regions became solitudes, and new occupants oured into them. The empire of Attila broke

poured into them. The empire of Attua proke into pieces after his death, his successors and companions throwing dice for the possession of the various countries and nations.

ATTIRET, JEAN DENIS, a French Jesuit and painter, born at Dole, in the province of Franche Comté, France, in 1702, died at Pekin, China, in 1768. He learned the principles of his art from his father, and had already produced some good pictures, when he entered the society of the Jesuits at Avignon. In 1737 he went to Pekin to pursue his art, at the solicitation of the French Jesuit missionary stationed there, and was employed by the emperor, Kee Lung, to execute numerous commissions. Here he remained during the rest of his life. He produced an immense number of paintings and drawings, mostly in water colors, many of which are valuable from the accuracy with which they depict Chinese physiognomy, dress, and habits, as well as triumphs, festivals, and processions, of an exclusively national character. A series of drawings, representing battles, in which the imperial forces had been successful, were sent to France to be engraved, and so gratified the emperor that he appointed the clined.

ATTLEBOROUGH, a township of Bristol county, Masa, 31 miles S. S. E. of Boston, and 11 miles N. N. E. of Providence, R. I. It has very extensive manufactures of jewelry, printed calicoes, metal buttons, and clocks, for which there is abundant water-power by Mill river, which intersects the town. It has a bank and insurance office. Pop. in 1855, 5.451.

which intersects the town. It has a bank and insurance office. Pop. in 1855, 5.451.

ATTOCK, a fortified town of Sinds on the river Indus. It formerly belonged to the Afghans, but was seized by Runjest Singh, and after

his death and the conquest of Sinde by the lish, it passed into the hands of the Britis. I place of military importance, from having all ages the crossing place of the Indu, all here 800 feet wide, of great depth, as strong current. By this route invades of from the N. W. have made their way in great peninsula. Nadir Shah, Timour, and ander crossed at Attock.

ander crossed at Attock.

ATTORNEY, one who acts in the part another. An attorney-at-law is one who for another in a suit at law, his client similar to that of procurator or proter is civil and canon law. Formerly very was obliged to appear in person to prome defend a suit, and this is still the law is inal cases in England; but in civil cases came the usage to appoint an attorney begin the place of the party, which was defend a warrant of attorney one but a person having legal capally appear by attorney. An infant, marking appear by attorney. An infant, marking petent to exercise the discretion of a the appointment. There were several tant legal incidents to the office of the still the appointment. There were several tant legal incidents to the office of the stilled to certain privilege, as exemption of the property of the stilled to certain privilege, as exemption of the stilled to the stilled to the privilege of the which the attorney had no right to which the stilled in the scountry in all the exemption of the stilled in the scountry in all the exemption of the stilled in the scountry in all the exemptions at a still the stilled

ATTORNEY-GENERAL, a law of state in England and the United State office in England is to prosecute for the in criminal cases, and to file bills in the of exchequer, in relation to lands or any claimed by the crown. Perhaps it was

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roper definition ey-general MIL III BII ►LEO 801 ers in v ed, either as of pecuniary here we will be the line of pecuniary here in any matter into the rights of the king. He is specially wind to examine all letters patent before issuing thereof. In theory this is for the tection of the crown against any interthereof. In theory this is not also compared in the crown against any injury to the crown agai exercise of this supervision is in relation letters patent for inventions which, under regulations now existing, affect only the the first of inventors, and the service is a merely mind one, and the expense to the parties feetly unnecessary. This officer is first men-ned in English history in the reign of Ed-ard IV.—The attorney-general of the United ates is required to conduct all suits in the upreme court in which the United States are oncerned and to give his advice and opinion pour questions of law, when required by the president or by the heads of departments, touching any matters which may concern their departments. He is also a member of the cabinet.—Each of the states has also its atartments. chey-general, whose duties are similar in re-ATTORNEY, POWER OF. This is an author-

ity in writing, constituting a person as attorney or substitute for one who executes the writing, the person thus constituted being generally designated as attorney in part. It is not indispensable that the authority should be given by normal instrument. A letter of instructions is sufficient to confer the authority, and sometimes it is inferred from the acts of parties without any evidence in writing.

ATTOYAC, a small river of Texas, rises in Rusk county, and flowing south enters Angelina river at the S. E. extremity of Nacoglobels county.

ATTRACTION, the force which brings bod-ATTRACTION, the force which brings bod-ies together, or resists their separation. The most striking example is in the attraction of gravity, which produces the weight of bodies, and which, of course, has been observed from the earliest ages. Magnetic attraction was also early observed in the loadstone. The attracn of electrically excited bodies was a later sovery. The attraction of cohesion is the fires which holds together the parts of a body, whether fluid or solid. The attraction of adhesion is that which holds dissimilar bodies tother, when brought into close contact . Capilary attraction is the addition of liquid to the inner surface of small tubes. Chemical attrac-tion is the force which holds dissimilar bodies together, and thus generates a third, different from either; as iron rust and oil of vitriol are held together by chemical attraction, and form copperas. For the laws of attraction, see works upon theoretical mechanics; Newton's Principia, Laplace's Mécanique Céleste, or Pairce's "Analytical Mechanics."

ATTRI, a river of Mindostan, which flows from the southern limits of Thibet, under the name Teesta, through a passage in the Himalayas, and discharges into the main branch of the Ganges at Jafferege. Length, 100 miles.

ATTRUCH, a river of Persia in Khorassan, near the confines of Khiva, which flows westwardly and enters the Caspian, 42 miles north of Astrabad.

ATTRUCKS Caragra a mulette or helf-Indian

ATTUCKS, CRISPUS, a mulatto, or half-Indian, resident of Framingham, Mass., one of the person killed on the evening of March 5, 1770, in the affray known as the "Boston Massacre." John attray known as the "Boston Massacre." John Adams, in his defence of the soldiers, says: "This Attucks appears to have undertaken to be the hero of the night, and to lead this army with banners. To form them, in the first place, in Dock square, and march them up to King street. They passed through the main street up to the main great in order to make the attack. main guard in order to make the attack. At-tucks, with his myrmidons, came around Jack-son's corner and down to the party by the senson s corner and down to the party by the sen-try-box. When the soldiers pushed the people off, this man with his party, cried, 'Do not be afraid of them; they dare not fire; kill them! kill them! knock them over!' And he tried to knock their brains out. had hardiness enough to fall in upon them, and with one hand took hold of a bayonet, and with the other knocked the man down. This was the behavior of Attucks, to whose mad behavior, in all probability, the dreadful carnage is chiefly to be ascribed." The funeral of the victims of the massacre was attended with victims of the massacre was attended with great pomp and ceremony. On the occasion the shops of the town were closed, and all the bells were ordered to be tolled, as were those of the neighboring towns. The procession began to move between the hours of 4 and 5 o'clock P. M., the bodies of Attucks and Caldwell (both strangers in Boston) being borne from Faneuil hall, and those of the other victims from the residences of their families,—the hearses meeting in King street, near the scene hearses meeting in King street, near the scene of the tragedy, and passing through the main street to the burial ground, where the bodies were all deposited in one vault.

were all deposited in one vault.

ATTWATER, Russell, a soldier of the revolution, and for 4 years, from 1812, a member of the New York senate, born in Cheshire, Conn., in 1762, died in Norfolk, N. Y., in 1851. On his mother's side he was descended from the noble house of Bedford. During the attack upon New Haven by the British, he was wounded, and left for dead upon the field, but recovered, and was employed in the commissary's department through the war. He was the first settler of the town of Russell in New York, in 1805. After the battle of Waterloo he was employed to negotiate the purchase of a he was employed to negotiate the purchase of a large tract of land in northern N. York, where Napoleon's friends intended that he should reside, should he succeed in making his escape, but after the sale was agreed upon, the news arrived that the emperor had given himself up, and the scheme consequently fell through.

ATTWOOD, THOMAS, a composer of music, born in England in 1767, died in 1888. At the age of 16 he attracted the favorable notice of the Prince of Wales, who sent him to Italy to be educated. At Vienna he was the pupil of Mozart until 1786, when he returned to England. His royal patron made him instructor in music to his concert, and in 1795-96 aided him in procuring the situations of organist at St. Paul's cathedral, and composer to the royal chapel. In 1821 he also appointed him organist of the private chapel at the Pavilion, Brighton. He wrote operas, songs, glees, tries, and, in the latter part of his life, sacred music. His works are marked by knowledge of orchestral effects, and are vigorously and sensedly written. Some of his operas and songs were very popular in their day, although now nearly forgotten.

ATTWOOD, THOMAS, an English political reformer, born at Halesowen, in the county of Sales.

reformer, born at Halesowen, in the county of Salop, Oct. 6, 1783, died March 6, 1856. He was scarcely arrived at man's estate, when he became a member of the firm of Spooner, Attwoods and Co., bankers, of Birmingham. In 1811 he was elected high bailiff, or mayor, of birmingham, and from that time threw him-self into public life. His two first steps were to oppose the renewal of the monopoly of the Kest India company on its former footing, and "Orders in Council," and he was mainly in-strumental in procuring their revocation but not until it was too late to prevent the collision with the United States. On this occasion the artisans of Birmingham raised a subscription of £300 among themselves, to present to him a silver cup. In 1815 and 1816 he took up the silver cup. currency question, opposed the return to cash payments, advocated the American system of small bills, controverted with all his natural ardor the currency ideas of Mr., afterward Sir Robert Peel, and was the founder of what is ince known in English financial politics as the Birmingham school of currency economists. In 1825, when the bank of England was on the In 1825, when the bank of England was on the eve of stopping payment, Mr. Attwood was summoned to London to give to minister the benefit of his advice. He advised the immediate reissue of £1 notes, which had been withdrawn from circulation in favor of £1 notes in spite of Mr. Attwood's protest; his advice was now taken, and the £1 notes were issued. In 1829 he planned the political union of Birmingham, for the purpose of throwing open the house of commons to the middle classes. For his services to the cause of parliamentary reform, he was presented with the freedom of reform, he was presented with the freedom of the city of London, May 21, 1832, with the lowing resolution, which sums up in a few words the contemporary opinion upon his revices: "That the freedom of the city in a box made of heart of British oak, Thomas Attwood, esq., in testing the light estimation in which the cities and the light estimation in which the cities in the his distinguished services in the cause of parlia-

mentary reform, and also th mentary renorm, and also the said by him in uniting the intelligent ous artisans, and the inhabitants the midland districts, in the firm is pursuit of that great national of mingham sent Mr. Attwood as is resentative to the reformed house of the did not make a brilliant figure the he represented Birmingham in 3 parliaments for 7 years. On Dec. 3 resigned his seat, on the ground of and his constituents hald a public seat. and his constituents held a public s thank him for his services. until his de ath he lived in retire

ATWOOD, Gronge, an English tician, born in 1745 in the parish ent Danes, London, died at Westmit 1807. He was educated at Westmit from which, in 1765, he was el college, Cambridge, where h where he he took his degree of master of a number of years resided at his col its fellows. He also lectured on philosophy, and other subjects of tific interest, before the whole un such ability that distinguished mass all parts of the kingdom to hear hothers, William Pitt, then rising is as a statesman, attended Atwood's was so impressed with his mathe

ers that he sought his acquaintan becoming prime minister, appoints sinecure office of deputy searcher toms in London, in order that his financial calculator might be see government. The value of these time when the revenue of the ki matter of exceedingly nice calcu duly appreciated by Pitt, between Atwood a strong friendship existed, only interrupted by the death of the moner in 1806. Atwood's labors government did not interfere with undertakings, and during the last his life he published several impor butions to science, among which are on the Rectilinear Motion and Bodies," another on the "Con Arches," "The Stability of Ships, view of the Statutes and Ordinane the Assize of Bread." He also gamedal at Cambridge, and received medal from the royal society. versed in the theory and practice which he evinced so great a liking occasion, he superintended a combridge, in aid of a charitable in most eminent professional perfoday took part. His books did large the sphere of human in he lacked the essential ability to differential and integral calculations. butions to science, among which a differential and integral calcu-have done much to diffuse know-ly by their detail of ingeniou illustrations of mechanical is

thine is, in par ate and measure tron but a f ATUA, in my the delties of the pagan maori or aborigines of New Zealand. Each tribe has its own atuas. The stars are presided over and subordinate to the father of the gods, Mawe, who is the only inversal deity or deus publicus of the New Italand race. The atuas are merely dei patrii, or local authorities, having no jurisdiction, power, or influence beyond the tribe by whom they are taken wiedged, and whose ancestors they are, but they are the start of th

prome and all-pervading within that sphere.
ATYS. I. A beautiful shepherd of Phrygia,
hom according to Ovid, Cybele loved and
her priest, on condition that he should
twe preserve his chastity. Atys, however,
ame mannored of the daughter of the river od, Sangarius, and violated his covenant with egodess, who to punish him, afflicted him ith madness. Atys attempted to commit suida, but Cybele interfered, and transformed in into a fir-tree. II. A son of Crossus, king him into a fir-tree. dia. His father having dreamed that would be slain by a spear, detained him Of Lydia. attys would be slain by a spear, detained num at home, and would on no account expose him to any danger. The country of Mysia, however, being infested with a formidable wild bear, its inhabitants entreated Crossus to aid them against their enemy. The king promised to succor them, and the prince urged his father so earnestly to allow him to accompany the hunters, that he at length reluctantly consented. The party proceeded to Mysia, and hunters, that he at length reluctantly sented. The party proceeded to Mysia, and encountered the boar, but in the act of doing so Atys was accidentally killed by the spear of the very man appointed by Orossus

Allys was accidentally killed by the spear of Admetus—the very man appointed by Orcesus to guard the youth from danger.

AUBAINE, RIGHT OF, a medieval right of the sovereign as regards aliens. The name is derived from albanus, albani, albini, a medieval corruption of alibi natus. The principles of German society and jurisprudence made the full surforment of civil and private wights demandant. njoyment of civil and private rights dependent in full citizenship in the community where ne was settled. Thus the rights of a stranger one was settled. were variously limited, and in certain cases he seed to the legal condition of a serf or **plobs** adsoriptus. In the earliest epoch even matives changing their communal district or discusse evers considered as albini, and the law man experiment explicit to them. But in the s sometimes applied to them. But in the of time it was strictly applied only born foreigners, that is, to subjects of another covereign. Thus the Provencel or the Burcovereign. Thus the Provençal or the Burgundian was a foreigner in relation to the inhabitants of the Seine or Loire; and a Bavarian residing and dying in Saxony bore the same character. The right of aubaine empowered the sovereign to inherit the property of any facilities without a will or without nativebreigner dying without a will or without native-born heirs. This 'ht was principally in use in France, and in 165 various applications was often exercised in a very oppressive manner by

nobles against settlers on their estates, and in their cities and boroughs. To encourage in-dustry and trade, the kings of France some-times renounced this right in favor of certain cities, which was the case with Lyons, where foreigners could inherit the property of their relatives who died there. The constituent assembly abolished this right by decrees published in 1790 and 1791. The Napoleonic code reed in 1790 and 1791. The Napoleonic code re-established it, providing, however, that special treaties with foreign governments might put their respective subjects on an equal footing with Frenchmen in the enjoyment of civil and private rights. Finally, in 1819, the right of aubaine was completely abolished by a special subane was completely abolished by a special law. Several European governments still preserve the right to deduct a part of all property which is exported from their country by foreign or indirect heirs, or attain the same object by a heavy stamp tax. But special treaties have gradually brought the right of aubaine into universal direct

versal disuse.

miles. It was formed of the south part of the province of Champagne and a part of Burgundy. The surface is mostly level; the soil in the S. E. is productive, but in the remaining portion it is poor. The Seine, Aube, Armance, and Vannes rivers flow through it. It is divided into the arrondissements of Troyes, Arcis-sur-Aube, Barsur-Aube, Barsur-Aube, Barsur-Seine, and Nogent-sur-Seine. It is an active manufacturing district in pottery, glass, and tiles. Pop. 265,257.

AUBER, Daniel François Espert, one of the most distinguished living composers, born at nost distinguished living composers, born at Caen in France, Jan. 29, 1784. His father, a print seller at Paris, in prosperous circumstances, allowed him to devote much attention to the study of music, for which he showed an unusual predilection, but which he cultivated

AUBE, a department of France, between 47° 55' and 48° 45'; area 2,351 square lies. It was formed of the south part of the

merely as an amusement, or an elegant accom-plishment. After a brief experience in the mercantile profession in London, which he found utterly distasteful, he returned to Paris, and devoted himself more than ever to his fa-vorite art. A number of little compositions, vocal and instrumental, including a new ar-rangement of the opera, Julia, were produced by him at this time, many of which were performed with applause in private circles. After a severe course of study with Cherubini, he ventured, in 1818, to appear before the public in an opera, entitled Sejour militairs, which solid of precess, at the level optically the grace. It lacked entirely the grace failed of success. and originality which had been admired in his previous works, and its reception so discouraged Auber that for several years he abandoned a career in which he had started under such fa-vorable auspices. The death of his father in embarrassed circumstances, however, compelled him seriously to devote himself to his art as a means of support, and in 1819 he produced at the Opera Comique Le Testament et les Billetsdoux, an opera in one act, which was, if possible, less successful than his previous attempt.

Undiscouraged by this failure, or by the sneers and ungenerous comments of the critics, who declared that his genius had been overrated by rtial friends, he wrote La Bergère Châtelaine, which was produced in the same theatre in the early part of the year 1820, and completely turned the tables in his favor. All Auber's grace, spirit, and dramatic power appeared in this work, which, with Emma, ou to Promesse imprudente, produced the following year, may be considered to have founded the brilliant reputation he has since enjoyed. From this time forward he produced a great number of works, almost all of which were received with favor, while some are among the most successful operas ow represented on the stage. An imitator of Bossini at the outset, he gradually acquired greater independence of style, and in Lo Muetts de Portici (better known perhaps as Massaniello), in which his genius reached its culminating point of renown, he ventured to form a style of his own, to which he has since steadily adhered. In addition to the works mentioned, Le Cheval de Bronze, Fra Diavolo, Le Domino noir, Les Diamants de la Couronne, L'Elixir d'Amour, Le Dieu et la Bayadère, Gustave, Le Siede and Hudis La Sirène, and Haydée, are among his popular operas. Many of them have his most popular operas. Many of them have been translated into English and German, and almost all into Italian, and their melodies are familiar wherever music is known. At the age of 74, Auber is still a vigorous and successful writer for the stage, as L'Enfant prodique, and Marco Spada, his two latest works, will show; and it is a fact worthy of note, and of which few examples can be found in the history of musicians, that during the 50 years that he has composed music, his inventive powers seem never to have de-serted him. The characteristics of Auber's music are sprightliness, grace, and great clear-ness and simplicity in their dramatic effects. His combinations are ingenious, if not profound, and his melodies naive, and often tender, al-though rarely pathetic. He has succeeded best in buffo operus, for which Scribe has furnished him with admirable librettos, and which are models of light and graceful composition. It is said that he will never hear his operas a is said that he will never hear his operas a second time, either to avoid repeating his ideas, or, like a conscientious artist, to devote himself at once to new works. Anber is a member of the legion of honor, and of the academy of fine arts, to which he was elected in 1829, and now holds the office of director of the imporial music and maitre de chapelle, at the Tuileries by the appointment of the Emperor Napoleon III. poleon III

AUBERT DU BAYET, JEAN BAPTISTE AN-NIBAL, a French general, born in Louisiana in 1759, died at Constantinople in 1797. He distinguished himself in the American war of independence, and, on being, in 1791, elected to the legislative assembly of France by the department of Isère, he took the part of La Fayette against his opponents, and was conspicuous in his support of all measures which were antagonistic to royalty and to foreign in in France. Subsequently, he again to army, became brigadier-general in 17st took an active part in the military ope at Mentz and in the Vendée. Some a which had been brought against hin is ence to the surrender of Mentz, turned have been groundless, and under the im in 1795, the office of the ministry of so offered to him and accepted, but after so of service, some difference of opinion Carnot induced him to resign. He was ped French ambassador at Constantin 1796, but died shortly afterward very sai

AUBERT DE VITRY, François Junium, a French politician and man of born in Paris in 1765, died in 1842, 1 tinguished himself in 1789 by the pali of various pamphlets, and a work Rouseau à Vassemblée nationale, whi warmly applauded by men like Herus St. Pierre, Condorcet, and La Harps. Hadmirer of the Girondists, and attacked cobins, for which he was arrested, but it covered his liberty, and subsequently he principal secretary of the Westphalia under Jerome Bonaparte. He died in

admirer of the Girondists, and attacked cobins, for which he was arrested, but it covered his liberty, and subsequently he principal secretary of the Westphalia under Jerome Bonaparte. He died in AUBIGNE, J. H. MERLE D', a Swissth born in Geneva, Switzerland, Aug. 16, I is the third son of Louis Merle, a me that city, and is nobly descended or of his father, whose father married the of a distinguished French nobleman, D From this paternal grandmother, Pr derives his surname (D'Aubigne), by mon Swiss custom. He was educated va, and after his collegiate course the Berlin to attend the lectures der. He was for several years the p French church at Hamburg, and after his collegiate course thand, at Brussels. In 1830 he return neva. When the evangelical societ neva founded their theological schoo appointed to the chair of ecclosiastica. As a writer both on theology and citory, but especially in the latter de he is widely known both in Europe a ica. His sympathies seem to identify with the Protestant church in Eng. America, and especially in Senthand, this brethren at home. His publishs breathe a spirit of carnest devotion, un a strong adherence to the Protestant truling principle of "God in history sought especially to unfald in his "I the Reformation of the 16th Cawock which has had an extensive c and a great influence both in this cos in Europe. His other works develop general thought, though perhaps in a lin his last visit to Scotland (1856), he sented with the freedom of the city of E Prof. Merle d'Anhigné is a man of cals liberal views, and is never idle, though I disqualifies him at present (1855) acc

He has accumulated an ample es just on the outskirts of Geneva, anding a fine view of the lake.

paged on his great work "History

ation," according to his own de-He is now at work on the d there is yet a 7th and perhaps THEODORE AGRIPPA D', a French and historian, born at St. 1550, died at Geneva, April 29, expressed his indignation at the ome Protestants at the town of s sentenced to death unless he his religion. He escaped, and took an active part in the siege Then the siege was over, he be-Geneva, to prosecute his studies, that Condé was about to show smies of the Calvinists, he went His constant activity and valor acted the attention of Henry IV., im with official distinctions; but isan frequently gave offence to h in his conversation and in

He produced *Circe*, a tragedy, blunt sarcasm directed against various members of the royal s banished from the court, but he did not abate his franknes s death, he published his first 8 Histoire universelle of his time 301). The 8d volume was seized order of Parliament, and he fled uring his absence, he was conath, and while under this con-offered his hand to a Genevese me of Burlamaqui, who did not

pt him as husband after he had ngerous position with his wonted former marriage he had one ie, who became the father of the ame de Maintenon. an Baptiste Christophe Fusée,

ist, born at Salon, in Provence, at Paris, in 1778; celebrated al labors in Mauritius, and in , where he added 400 plants to His herbarium anical science. by Sir Joseph Banks, and is now n of the British museum.

OHN, an English antiquary, born Wiltshire, March 12, 1625, died 1700. He inherited a valuable father, which he wasted in lawavagant expenditure, and was d by the kindness of his friends. rorks are his "Miscellanies," and History and Antiquities of the rey." His writings, chiefly in we been of great value to anti-

Hueura, a provost of Paris, in y, born at Dijon, of low parents in 1882. Recommended to the duke of Burgundy, he soon

became the first magistrate of the French metropolis. In 1869, by the order of the king, he built the bastile, as a bulwark against the English. Many public works of importance, such as sewers and bridges, were completed under his administration. He incurred the aniunder his administration. He incurred the ani-mosity of the university, by the severe punish-ment he inflicted on some students, who, under the cover of their privileges and immunities, committed disorder. He was charged with the crimes of implety and heresy, before the one crimes of implety and heresy, before the ecclesiastical courts, and after a long trial, was sentenced to perpetual imprisonment. He would probably have died in his dungeon, where he was fed on bread and water, if in the beginning of the reign of Charles VI. he had not been liberated by the Parisian insurgents, called Maillotins, who desired him for their leader. He seamingly assented to their respectively. leader. He seemingly assented to their proposal, but the very same night he escaped from Paris, and returned to his native province.

AUBRY, FRANÇOIS, a member of the French Convention, born at Paris, about the year 1750, died in 1802. In the convention he voted with that nondescript party called the Plain. In 1795 he succeeded Carnot as a member of the committee of public safety, and one of his first acts was to release Napoleon Bonaparte, then under arrest for having had some intercourse with Robespierre. Aubry, as secretary of war, was noted only for his incapacity. Under the directorial government, he entered the council of the 500, and openly conspired against the republic; so that, on the 18th Fructidor, he was condemned to transportation. He succeeded in making his constant of ceeded in making his escape from Cayenne, and not daring to return to France, where Bonaparte was in the ascendant, he sought a refuge in Engwhere he died.

land, where he died.

AUBRY, MARIE OLYMPIE, better known as OLYMPE DE GOUGE, a French woman who acquired some notoriety in the beginning of the revolution. Born about 1755, at Montauban, she early repaired to Paris, in the hope of making herself known by her literary performances. Handsome, impulsive, gifted with a wonderful facility for extemporizing, so much so, that she was able to dictate, like Lope de Vega, a tragedy a day, her plays met with indifferent sucgedy a day, her plays met with indifferent success. She then turned to politics, and made herself conspicuous. She published many pamphlets, and contributed to the establishment of female societies and clubs, where she frequently gave vent to her eloquence. Governed entirely by fancy and sentiment, she was of course inconsistent in politics, being at one time a revo-lutionist, and at another a royalist. When king Louis XVI. was arraigned before the national convention, she claimed the honor of being his defender. During the trial, she published a pamphlet, Les trois urnes ou le salut de la France, for whench she was ried before the revolutioners tribuel services. lutionary tribunal, sentenced to death, and executed Nov. 5, 1798.

AUBRY DE MONTD'DIER, a French knight,

in the latter part of the 14th century, is known

for the extraordinary manner in which his mur-derer was discovered and punished. There had been no witness of his death, except a dog which was devotedly attached to him, and which evinced such hatred toward Richard de Macaire, one of the companions in arms of his late master, and pursued him with such persistlate master, and pursued him with such persist-ent barking, that suspicion was aroused; and, according to the usage of the middle ages, the "judgment of God" was ordered, and the man had to fight the dog. This singular combat took place in Paris, in 1371. Macaire was thrown to the ground, and confessed his guilt. This legend, which is far from being well authenti-cated, is the theme of several ballads and dramas in France and Germany.

in France and Germany.

AUBURN, capital of the county of Cayuga in N. Y., 174 miles west of Albany, 24 miles west of Owasco lake, the outlet of which intersects the town; pop. in 1855, 9,476. The city, though it stands on a somewhat uneven surface, is hand-somely built, with wide streets. It is the seat of a Presbyterian theological seminary, founded in 1821, with a library of 6,000 volumes. It has 8 churches, a flourishing academy, 5 public free schools, 3 banks, and 7 newspaper offices. The Auburn state prison, which is celebrated for its peculiar system of prison discipline, is a fine, massive stone structure, enclosed by a which measures 500 feet on each side and about 30 feet in height. It sometimes has more than 600 convicts, who are employed in a variety of manu-factures, the proceeds of which generally are suf-ficient to defray the expenses of the institution. The Owasco outlet has abundant power, which is employed both in the town and its vicinity in manufacturing cotton and woollen fabrics, car-pets, iron, and paper, and in propelling a num-ber of mills.

AUBUSSON, a town of France, in the de-partment of Creuse, celebrated for its manufacture of carpets. This special branch of industry gave a great prosperity to the town during the 17th century, when it is asserted that out of a population of 12,000 inhabitants, upward of 2,000 were directly employed in the carpet trade. Unhappily, most of them were Protestants, so that the revocation of the edict of Nantes inflicted a terrible blow on the city, which from that time decreased in population and wealth; but a reaction seems to have taken place, and for the last 25 years Aubusson has materially improved.

oved. Pop. 5,196. AUBUSSON, PIERRE D', grand master of the order of the hospitallers, or knights of St. John of Jerusalem, and a cardinal-legate of the Latin church, was born at Lamarche, France, in 1423, died July 15, 1503. He is said to have first served in the Hungarian armies against the Turks. In 1444, he accompanied the dauphin, afterward Louis XI., son of Charles VII., in his campaign against the Swiss, and took part in the victory gained over them near Basel. He next repaired to the island of Phodes, where he was admitted as a knight in the order of St. John. His activity, valor, and energy, seen made him one of

the most prominent members of the o on the death of the grand master, Des I was unanimously elected as his success latter part of the 15th century was a cr riod for Christian civilization. Moham after taking Constantinople, had a Greece, Thrace, Servia, Moldavia, the la the Adriatic, and was threatening Italy. stood as an advanced past for the pr the Christian world. Aubusson had a fortified, at the same time forming as with the king of Tunis and the sulus of Mohammed sent against Rhodes a feet sail, carrying an army of 100,000 m the command of the apostate Misach Pili The Turks came in sight of the island 1479, and began the siege regularly on All the defensive measures ducted with energy, prudence, and ind courage. Aubusson was always the in the enemy, fighting in the most dangers and accomplishing wonders. He recei severe wounds that his life was for se despaired of; but he succeeded, and t were obliged to raise the siege July Mohammed, enraged at the fatal blow to been inflicted on his arms, was preparence expedition, which he was to out person, when he intended to bring no 300,000 soldiers against Rhodes, but wented the fulfilment of his plan; ar forth for years Christian Europe has fear from the Turks. To this result contributed no less by his skilful than his prowess. He was active trigues that troubled the court of Co ple. He received at Rhodes Zinim the brother of Sultan Bajazet, wh his hands a powerful instrument the Turkish court. Zizim was first to France, then delivered to Pope VIII., who rewarded Aubusson with of cardinal and the office of legs see in Asia. Aubusson was cert eminent among the Christian politicians of his time. Alth chief of a military order and prin island, he was respected by bo island, he was respected by both and Mussulman sovereigns. He not only by his contemporaries, hadmirers in the following ages, as sen of God among the French to the conquests of the infidels," am surname of "shield of the Chri A stern defender of his faith, he a the Lowe, whem he desired traces the Jews, whom he de

AUCH, an old city of south ment of Gers, the seat of an arnal of commerce, an imperial mary normal school; pop. in the time of Casar it was the cil, and was afterward the met popularia. Auch has and cotton stuffs, and c trade, particularly in the

f, Rosers, an eminent lawyer, American family of that name, 0, at Boston. He was of Scotch mily holding an ancient barony Scotland, came to America and mearly in the 17th century. He about the year 1719, and was long the anecdotes preserved of his lness. He also possessed extras, and it is said the profession in sindebted to him for the high as since maintained. He held Massachusetts, and when in Engar the colony, in 1741, is said to he expedition to Cape Breton. pamphlet, entitled "The Imporiseton to the British Nation, and ag the Place."—Robert, son of and, like him, an eminent law-

Although without a collegiate ras distinguished as an advocate er, among such contemporaries. Hawley, &c. In 1767 he was not the court of admiralty, which sed as long as the royal authority; but in 1776, being a zealous a country and went to England, He was associated with John

efence of Capt. Preston.

Y. SAMUEL, rector of Trinity
York, born in Boston in 1725, rk, March 4, 1777. He graduated age in 1742, and went to England by orders. After his ordination ad by the society for the propa-lospel an assistant minister of and in 1784 succeeded to the and in 1764 succeeded to the e churches in the city. He reity as the revolution approached, ad made arrangements to visit he expectation of being conse-f New York, and in his minis-church continued as before to ers for the king. When the took possession of New York as forbidden by Lord Sterling, held his ground, although his ered by a company of soldiers, sating, and with the threat of of the pulpit. He then shut and chapels, and took the keys we Jersey, leaving orders that should not be opened until the read without interruption. g again in the British possession, return, but a passage was de-then sought by a circuitous his way back on foot, and sucreat hardships, only to find his sonage burnt to the ground, and the records of the church denext Sunday he preached for St. Paul's. The various trials he brought on an illness which cara few days.—Sir Samuel, brig-the British service and son of the L IL-22

preceding, born in New York in 1758, died in Ireland, Aug. 11, 1822. He graduated at Columbia college in 1775, and the next year entered the army under Sir William Howe. He was adjutant-general in the expedition to Europe in 1781. In 1783, he was at the siege of Seringapatam in command of a company under Lord Cornwallis. Returning to England in 1803, he took command of the troops ordered to South America in 1806, with the rank of brigadiergeneral, and in 1807 carried the fortress and city of Montevideo by assault. In 1809, he was commander-in-chief in the Carnatic, and in 1811 took possession in the name of Great Britain of the valuable Dutch colonies of Java and Batavia. On his return to Europe he was put at the head of the forces in Ireland. He had all the qualities of an accomplished miltary chieftain, and twee received the thanks of parliament, and, after his return from South America, a service of plate and the rank of lieutenant-general.

Hierton, a Service of place.

AUCKLAND. I. WILLIAM Edge, baron, a British diplomatist, born 1750, died 1814. In 1778 Mr. Eden was employed with Lord Carlisle in the settlement of the rupture between the British government and the American colonies. The period for negotiation had, however, passed, and the colonies declared their independence. He entered parliament and was secretary of Ireland, and was sent to the court of Louis XVI., with which he negotiated a commercial treaty. On the breaking out of the great revolution of 1789 he was sent to the Netherlands as envoy extraordinary, with instructions to use all his abilities to countercheck the new political relations growing out of the revolution. For the manner in which he discharged these duties he was called to an account by the house of commons on his return. He wrote "Principles of the Criminal Law," 1772, and various pamphlets, among others, "State of the Poor in England." If. George Eden, baron and earl, born Aug. 1784, died Jan. 1849. In 1835, he was sent to India as governor-general. During his administration of this office, the opium war with China broke out. It was during Lord Auckland's government also that the expedition against Afghanistan took place, rendered so disastrous by the imprudence of the civil functionaries and the imbecility of the military commander. (See Avehanistan,) Lord Auckland powerfully supported various amendments and reforms in the details of the Indian administration and the adoption of a sounder system of land revenue, the basis of which had been laid by Lord William Bentinck. Lord Auckland's chief personal action was, however, exercised upon a system of native schools, in which the children are gratuitously taught the elements of modern education, with a view to their admission into higher schools, where the successful pupils are trained as public officials. The improved administration of justice, both civil and criminal, also occupied his attention.

position of their estate in the hands of

In 1841 he was succeeded by Lord Ellenborough, and on his return was created an earl, which title died with him. He was unmarried.

AUCTION (Lat. auctio, the act of increa ing), a public sale, whereat persons openly compete, each offer or bid increasing upon compete, each offer or bid increasing upon the previous one, and the property being finally sold to him who will give the most for it, the highest bidder. In Holland, and at what are called Dutch auctions elsewhere, this process is reversed, the seller naming a price beyond the value of his goods, which is gradually lowered, until some one closes with the offer, the term auction, as applied to such a sale, being obvi-ously a case of lucus a non lucendo, a complete misnomer. Rome, so far as is known, invented the auction, which was at first held for the sale of military spoils among the soldiers behind a spear stuck in the ground, whence it was called auctio sub hasta (under the spear), or subhasta-tio. The signal of the spear was afterward put up at all sorts of auctions, and the name was retained long after the signal was disused. At auctions in Rome, for which the permission of a magistrate must always be had, a spear a magistrate must always be had, a spear was fixed in the forum by a crier, who proclaimed the articles to be sold and furnished the company with a catalogue upon tables. Subsequently sales were proclaimed by trumpet. Bids were made by holding up the fingers. After the death of Pertinax, A. D. 193, the prætorian guards put up the Roman empire at auction, which after a number of bids by Sulpician and Julian, the sole competitors, was knocked down to the latter for 6,250 drachms, about \$1,000, to each soldier.—In England sales "by the candle" or "by the inch of candle," which are still occasionally advertised, derive their name from an ancient practice of measurtheir name from an ancient practice of measur-ing the time within which the biddings must be completed by a candle, the highest bidder at the moment the inch burnt out becoming the purchaser. The minimum price at which the owner was willing to part with his property was sometimes put under a candlestick—"dumb biddings:" and in the north of England still occur sales where the bidders do not know each other's offers—"candlestick biddings." A curious kind offers—"candlestick biddings." A curious kind of auction used, according to an old reporter (1 Dow. 3), to be held by females, who did not speak during the whole sale, but gave every person the moment he bid a glass of brandy, the purchaser being he who received the last glass in a private room. It is a little surprising that a practice, so well calculated to warm up competition, should have become obsolete. In England, a person is sometimes appointed, called the judge of the roup, to superintend the sale and act as arbiter if disputes arise. In modern times sales at puldisputes arise. In modern times sales at pub lie anction are as common as private sales, are directed in most cases by the law, where it interposes between the owner of property and the purchaser—its object being the pro-tection of those who necessarily put the dis-

as bankrupts or the members of a corporation. The red flag is the sel of the trade, and the suctioneer, with mer, his boisterous "going, going, g his earnest or humorous appeals to the is often a very original character. dice appears to exist against him or hi now; but from 1817 to 1831 the strong anti-auction feeling in this cou ticularly in New York, and upon the p porters and jobbing merchants. And charged with furnishing facilities for ment, smuggling, and perjury, and w injurious to the growth and prospent and it was vainly attempted to indi to pass a law, imposing such a duty a as would amount to prohibition, tioneer is the seller's agent, and as special property in the goods, a lim a or upon the purchase money, wh authorized to receive it, for his o authorized to receive it, for his communication duty, and the charges of the exceed his authority, or refuse t name of his principal, he renders his sonally liable. In sales of real es usually authorized to receive the d not the residue of the purchase m often receives this deposit as a ser holder, to be paid over if a good til ti s his duty to do his best to possure the regular course of busin pursue the regular course of busin comply with all legal instructions. ditions of sale and the plans and dethe property, particularly if real es be accurately made known beforehar ed or written, they control the orai of the auctioneer, for, in the wor Ellenborough, "men cannot tell wh they enter into, if the conditions of be controlled by the babble of t room." Slight inaccuracies of des not, but substantial ones do avoid to bid at an auction may be retracted hammer is down, and, in cases wi entry is required to complete th entry is required to complete the that is made. For a bid is only an e-does not bind either party until a Frand upon either side avoids the employment of bidders by the ow-not illegal, according as circumstan-show bad or good faith. To employ order to provent assertice, by her erder to prevent a sacrifice property, is, except where tised, as being "without re But it is a fraud to use them enhancing the price through petition. On the other hand if the purchaser prevails upo from bidding by appeals to the false representations. Mock the disregarding of these rule fide bidders at them are per with the ways of the city, to articles are knocked down at a from the Penny Cyclops

particularly to New York: "In twna, persons make a trade of so of inferior and ill-made goods; merally placed by them at the trangers to enter, and puffers are ed who bid more for the articles worth, and thus entice the untual attempts have been made to

tual attempts have been made to hese practices." paritime department of France, sonne, bordered on the E. by the area, 2,840 square miles. It is

nt gales, the surface mountainthe soil generally productive. Languedoc intersects Aude from he canal of Robine, or Narbonne, portion from N. to S. Corn and ndant, and are exported. The s, the Berre, the Orbieu, the Orrivers, traverse this department. nto the arrondissements of Carlnaudary, Limoux, and Narbonne,

insudary, Lamoux, and Narbonne, actures of woollen cloths, paper, brandy distilleries, salt works, re. Pop. in 1852, 289,747.

I, Jean Baptiste, a French paintist, born at Rochefort, in France, a 1800. He studied painting in ntually became distinguished for In 1789 having made the se-

In 1789, having made the ac-Gigot d'Orex, a man of wealth station as a naturalist, who poscollection, he was employed This me of his rarest specimens. caled a new talent in the artist, r natural history, which soon absorbing passion. A journey and and Holland furnished mateber of designs, which appeared ard in Olivier's Histoire des innished naturalists by their corm and color. The artist next preparation of a series of illusn natural history, on a most ex-rhich unfortunately he did not The first of these was the slle des singes, des makis, et des (Paris, 1800), containing 16 col-I showing an equal facility in the mer, engraver, and writer. coloring had never been equalled, ingenious processes, such as the old leaf, variously tinted, he was odnce the most gorgeous plumage ects, as near to perfection as pos-stitution of oils for water-colors, ed a great improvement in the

ed a great improvement in the illustration. His next work, olibris, des oiseaux-mouches, des promerops (Paris, 1802), is still a most perfect work on the subished. He then commenced a on birds, Mammiferæ, and man, engaged on the first of them, grimpereaux et des oiseaux de was fortunately completed from

his designs, by Desray, to whom he had communicated the process.

AUDIENCE, the reception of an ambassador

AUDIENCE, the reception of an ambassador by a sovereign, at court; also a court ecclesiastic in England, held by the archbishop in person.—AUDIENCIA, is the title of the Spanish tribunals of justice.

AUDIFFREDY, THERESE, a native of Cayenne, in Guiana, who preserved General Pichegru, and other Frenchmen exiled to that country, from starvation.

try, from starvation.

AUDITOR, a functionary appointed to revise the financial statements of parties accountable either to states, joint-stock companies, or to wealthy private individuals.

AUDIUS, or AUDEUS (Syrian Udo), the founder of a religious sect called Audians, which advected the anthropomorphistic doctrine, and

AUDIUS, or AUDEUS (Syrian Udo), the founder of a religious sect called Audians, which advocated the anthropomorphistic doctrine, and was established under rather interesting circumstances. Audius, born at the end of the 8d century, and died in 870, was a Mesopotamian, of singular purity and severity of character. He became disgusted with the Syrian clergy, and on expressing his opinion with more firmness than discretion, he was excommunicated; when a considerable number of sympathizers gathered around him and constituted themselves into a church. But this sect could not long withstand the persecutions to which it was exposed, and died almost at the same time as its founder, who passed the latter part of his life in exile in Scythia, where he converted many pagans to Christianity by the force of his teachings, and the moral beauty of his ascetic life.

AUDLAN, an ancient and influential family, originating in Alsatia, where, in 1274, they were invested with the flef of the town and domain of Audlan. In the time of Conrad III.

AUDLAN, an ancient and influential family, originating in Alsatia, where, in 1274, they were invested with the flef of the town and domain of Audlan. In the time of Conrad III. Hermann Peter von Audlan distinguished himself by his publication in 1460 of De Imperio Romano-Germanico, which was the first attempt in Germany to establish the principles of political jurisprudence.—Georg von Audlan, who lived about the same time, was provost of the cathedral, the first rector of the newly founded university of Basel, and exerted considerable influence on the councils of Constance and Basel. There are at present 4 families of Audlans, 2 of barons and 2 of counts. The junior branch of the barons and the elder branch of the counts reside in France. The head of the latter branch is Count Felix. The 2 other branches reside in Baden and Switzerland.

AUDLEY, THOMAS (Lord Audley of Walden), lord chancellor of England in the reign of Henry VIII., is supposed to have been born at Earl's Coine, in Essex; he died at his London residence in 1544. Little is known concerning his origin or his early life. In the year 1526 he became autumn-reader in the Inner temple. In 1529 he was made speaker of the house of commons in that long parliament which broke up the smaller religious houses throughout the kingdom. He held successively the offices of attorney for the duchy of Lancaster and king's sergeant. In 1582 he was knighted, and suc-

ceeded Sir Thomas More as keeper of the great seal, and on Jan. 26, 1583, became lord chan-cellor of England, which office he retained until Audley presided at the trial of Sir Thomas More, and was speaker of the black parliament. He showed himself at all times the ready and unscrupulous tool of Henry VIII., in ready and unscrupulous tool of Henry VIII., in enforcing the arbitrary edicts of that monarch, and was richly rewarded in the distribution of the church lands. The priory of the canons of the Holy Trinity, usually called Christ church, in London, with all the real estate of the establishment, and the great abbey of Walden in Essax, fell to his share. The former he altered into a town residence for himself. In 1538 he was accepted Baron, Andley of Walden, and made a created Baron Audley of Walden, and made a knight of the garter in 1540. He left no son, angus of the garter in 1040. He left no son, and the barony, consequently, became extinct. He was not, as has been erroneously reported, the founder of Magdalen college, Cambridge, but in 1543 he gave certain lands toward the support of the institution, then known as Buckingham college, which was the proper income.

ingham college, which was thereupon incorporated under the name of St. Mary Magdalen.
AUDOUIN, JEAN VIOTOR, a French entomologist and naturalist, born at Paris in 1797, died in 1841. In 1824 he established, in conjunction with Mesers. Dumas and Adolphe Brongniart, papers on the anatomy of the insecta, and especially those on the anatomy of the insecta, and estention of Cuvier, Geoffroy St. Hilaire, and Latreille, and led to an intimate relation with these distinguished men. In 1995 he heare connected distinguished men. In 1826 he became connected with Kilne Edwards in investigations in reference to the crustaces and annelida. In the same ar he became assistant to De Lamarck and Jean le because assistant to De Lamaca, and on the death of the latter he was appointed professor of entomology in the museum attached to that institution. In 1882 he was one of the foundinstitution. In 1883 he was one of the found-ers, and for many subsequent years the presi-dent of the entomological society of France. While visiting the north of France in the sum-mer of 1841, for the purpose of investigating the habits of the insects which injure the olive plan-tations, he exposed himself to wet and cold, tations, he exposed himself to wet and cold, which brought on an attack of apoplexy, of which he died.

AUDRAIN, Missouri; area, or undulating: perior for gri 1856, 6,130, of was slaves. In 1850, a 186 bushels of o 6 bushels of o , 1, 1, oats, 1,092 tous of hay, tobacco, and 61,044 of butter.

churches, and 460 pupils in the puatron at AUDRAN, the name of a celet of French engravers, all descending a Andran an officer of the Henry IV., whose son (died in 1677, settled at professor of engraving at JEAR, born 1667, died 1

the Gobeli of art, the most of shrated of which is graving of the Enlessment des Selies Poussin.—Grand, born at Lyons is 184 at Paris in 1703, studied 8 years at Rese Carlo Maratti, and who, at this early as his life, acquired fame, even in Roma, by graving of a portrait of Pope Clement II. bert invited him to Paris, where he say for the king the best pictures of Le B was also the author of a work on the m of the human figure, published in folioplates of ancient statues. He is to this upon as one of the greatest historical e

that ever existed.

AUDRY DE PUYRAVEAU, Pres cois, a French politician, born in 1773 and ed to the chamber of representative in 1 member for Rockefort. He took as an member for Rochefort. He took an and prominent part in the July revolution after having helped Louis Philippe to the he soon became a violent opponent ernment and an advocate of the rep Pecuniary difficulties also involve troubles. In 1835 he brought upon hindictment for sedition by an impress to the prisoners of April, and was e to 1 month's imprisonment and to pe 200 francs. In 1848 he was elected stituent assembly by the departm rente-Inférieure, and, on May 4, ma of that body. Since the reestablish empire he has lived in retirement

AUDUBON, a county in the & L Iowa, named in honor of Audubon the

Iowa, named in honor of Audubon is logist; area, 630 square miles; per 283. It is crossed by an affluent of it AUDUBON, JOHE JAMES, the guished of American ornithologists 4, 1780, on a plantation in Louisis the city of New York, Jam. 27, father, who had been an admiral in navy, was a man of some cultivation couraged his young love for natural to the couraged his young love for many fathers of many feathers as a child, he manifested the couraged his young love for many feathers are the couraged himself of many feathers are the couraged himself of many feathers are the course of the co himself of many feathered favorites any one of them died, he was any one of them died, he was grieved because he did not posses of reproducing its brilliant plums tiful form. He began of his own the birds, and disclosing considers a draughtsman, he was taken to educated. Placed in the studio of ed painter David, he neglected the partments of art, in his carnest peculiar branch of it, in which because so skilful. He was 17 yes he returned to his native counter. be returned to his native coun become possessed of a fine farm of the Schuylkill, in Pennsylv married there to an estimable is aring in his cothu allowed his

AUDUBON 841

the break of day, and to return wet with and bearing a feathered prize was the less enjoyment of my life." He was then emnected with some commercial speculareserved with some commercial specula-tion, which do not appear to have prospered.

The reserves into the habits of birds, and his lawings of them, absorbed his attention.

The of these drawings, it may be said for the

souragement of youthful genius, when they

afterward shown to Lawson, who en
tived designs for Lucien Bonaparte, the orni
consist, were rejected as unworthy of the

line. He had too much confidence in himself in. He had too much confidence in himself the repulse, and he continued his labors as much animation and eagerness as before. sore severe trial befel him, when, after havaccumulated a large stock of the most carey executed designs, he discovered that the sole of them had been destroyed by the nice, which had eaten into the box where they were the was compelled to fill his portfolios by but his love of the woods and fields was a superior and adapt over to allow him to by vocation because he liked it, because it the breath of his life, and it was this image, not a vain love of fame, which laid the matter for that immortal work, the "Birds America."

After 10 years residence in smaine and ardent ever to allow him to America." After 10 years residence in tansylvania, he removed to Henderson, in tantacky, where he again embarked in trade, it not to the detriment of his more genial tables. At the time he went to the West, the satire region, which is now covered with innutivable cities and villages, was quite unsettled, and he was obliged, in order to get to his destination, to float his family and goods down the Chio river in a small cance, which he purchased for the purpose. In 1810 he made the acquintance of the Scotch ornithologist, Wilson, who was then prosecuting his own researches who was then prosecuting his own researches he the American wilderness. The tradition runs that Wilson and Audubon met by accident, when the former, displaying some of the trophies of his own pencil, was utterly astoniated to find in a mere backwoodsman of American Wilson almost beyond the skirts of civilizations. ica, living almost beyond the skirts of civilizaon, a man, whose scientific ardor equalled, and whose sketches surpassed his own. Tothe rest was destined and the subjects of what was destined to be almost impenetrable forests of the remoter territories. The next year Audubon visited the bayous of Florida, gathering by his rifle and pencil the subjects of what was destined to be his const. Indeed, secreely a very large was the rest was the subjects of what was destined to the his const. and pencil the subjects of what was describe be his great work. Indeed, scarcely a year passed, at any period of his life, without witcome new treasure acquired. From the great some new treasure acquired. From the great lakes of the north, to the wildest solitudes of the western prairies, there were few accessible spots which escaped his restless wanderings. In the year 1824 he came to Philadelphia and New York, to make arrangements for the pub-

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lication of the results of his labors; and, in the same interest, sailed for England in 1826. He was everywhere received by learned socie-ties and scientific men with the utmost cordities and scientific men with the utmost cordi-ality and enthusiasm. Among his warmest admirers in Great Britain were Jeffrey, Wilson, and Sir Walter Scott; and in Paris, Cuvier, Geoffroy St. Hilaire, and Humboldt. It was honorable to the zeal and appreciation of the foreign public that of the 170 subscribers at \$1,000 each, to his splendid volume, the "Birds of America," nearly one-half came from England and France. This volume was issued in numbers, containing 5 plates each. issued in numbers, containing 5 plates each, every object being of the size of life. By Nov. 11, 1828, eleven numbers of the work had appeared, with nearly 100 plates. In 1829 he returned to the United States, to explore anew the woods of the continent. Roaming at will from the coasts of Selvador to the coverledge. returned to the United States, to explore anew the woods of the continent. Roaming at will from the coasts of Salvador to the everglades of Florida, he gathered materials for a new work, which he aptly termed his "Ornitholog-ical Biographies." In 1832 he made another visit to England, where in the course of 2 years the second volume of the "Birds of America" was published, and a second volume also of was published, and a second volume also of the "Ornithological Biographies." An entertaining account of the circumstances under which taining account of the circumstance issued is to his several magnificent folios were issued is to found in the various prefaces. The larger be found in the various prefaces. The larger work embraced 4 volumes of engravings and 5 of letter-press illustrations; and to get these through the press, was an exacting and protracted task. In 1833, having returned for the last time to this country, he established himself through the press, was an exacting and protracted task. In 1833, having returned for the last time to this country, he established himself in a beautiful residence, Minnie's-land, on the banks of the Hudson, near the city of New York, where he commenced a new edition of the "Birds of America," in imperial octavo. This was finished in 7 volumes in 1844. It was during this interval that Audubon exhibited in the hall of the New York lyoeum of natural history, a collection of his original drawings—one of the most extraordinary collections, perhaps, that was ever exhibited. It contained several thousand specimens of birds and animals—all of which had been gathered contained several thousand specimens of birds and animals—all of which had been gathered by his own hand—all drawn as large as life by his own hand—and all represented in their natural habitats or localities. A contemporary critic says that it "opened to the spectator all the forests of America, filled with all their many-colored inhabitants." As works of art they were astonishing productions, but they were no less astonishing as evidences of the indefatigable zeal and energy of the man whose single efforts had amassed the vast and varied museum. But Audubon had not merely gathered these objects and painted them; he had laboriously described them, scientifically and popularly,—and had woven into those descrippopularly,—and had woven into those descriptions innumerable passages of the most exciting personal adventure. Yet, after such prodigious excursions and such incessant labors for the press—enough to have satisfied the ambition and exhausted the energies of any man—his

unabated ardor for knowledge turned at once into a new direction. He projected a work on the "Quadrupeds of America," on the same imperial scale with that on the birds. For this purpose he began, in company with his sons, Victor Gifford and John Woodhouse,—who both inherited much of his talents as an artist, as well as a naturalist,—the same wide ist, as well as a naturalist,—the same wide and unwearied wanderings which had marked and unwearied wanderings which had marked his previous pursuits. But the approach of old age—and he was now nearly 70—induced his friends to dissuade him from the more toilsome and dangerous expeditions which he thought necessary to complete this scheme. A great deal of the labor in respect to the writing was performed for him by his excellent friend, Dr. Bachman, of Charleston, S. C., and he was largely assisted in the other departments by his sons—vet before the grand work was by his sons,—yet before the grand work was accomplished, his powers began to relax. He was taken ill, and sank to rest gently, says one who was present, as a child sinks to sweet, refreshing sleep. He was buried in Trinity cemetery, adjoining his latest residence, where a monument, reared by the gratitude and admiration of his countrymen, ought to mark his final resting-place. Andubon's chief claims to the remembrance of posterity will rest upon his unequalled achievements as a practical naturalist; but he deserves a high place in literature, also, for the brilliant episodes of personal experience which enliven his letter-press illustrations. As a man, he was in every way worthy the uniform love and respect with which he was greeted by those who knew him. In person he was tall and slender, but sinewy and vigorous; the ex-pression of his face was ever animated and winning; his manners were extremely gentle; winning; his manners were extremely gentle; and his conversation full of life and piquancy. He spoke always with a slight French accent, acquired in his youth, but his mastery of his native tongue was otherwise quite perfect. In his written style, he was occasionally too different accents the style of t fuse and ambitious, but he is never obscure, never affected, and never dull. An autobiography of this eminent and original man, promised shortly after his death, has not vet made its appearance; and until it does world will not be able to the dangers, pursued his line or son ful endeavor. the Linnssan anu of the natural his Wernerian society of E
of natural history at
honorary member of the su
history at Manchester, of the
academy of painting, sculpture,
ture, and of many other scientime
less note. less note.

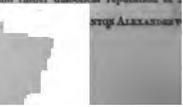
AUERBACH, BERTHOLD a cont
German author, born Feb. 181a, un en
parents at Nordstetten,
literature by his "Black,
which have been transl

languages. He had previously written deto Bürger, Buck fur dealers as Mind. (Citizens of Cumuvated Minds, a Bed thoughtful People of the middle Cham); Judenthum und dis nouses Literature; Judenthum und dis nouses Literature; Delaw and Modern Literature; Believ Kaufmann (Poet and Merchant), minoza, a biography with translations. In the Black Forest Tales, his most popular cation is an almanac published by him and called the Govatteramana (the Gold which, somewhat after the manner of lin's Poor Richard's almanac, trust of great and small events of the day is naive and collequial manner, as with the lowest, and at the same time with vivacity and humor as to command at tion of the loftiest minds. He is the of a novel Die Frau Professoria (Malsor), a collection of tales; Drustale (German evenings), travelling and (German evenings), travelling and tragedy published in 1850, and a tragedy published in 1850, and a tragedy published in 1850, hoper. The Vienna Diary has seen compliment of a translation into English twork, the Baarfuste, which is limit Forest Tales, full of his characteristic is simplicity, was brought out at Stanty beginning of 1857. Since 1845, he has simplicity, was brought out at Stanty beginning of 1857. Since 1845, he has simplicity, was brought out at Stanty beginning of 1857. Since 1845, he has simplicity, was brought out at Stanty beginning of 1857. Since 1845, he has sweetness of disposition, with uncome and conversational powers.

AUERBACH, HEXENDER, born 1

AUERBACH, HENEMON, born 1 1542, medical professor and sensing at the time of George the bearded, Saxony. His real name was Stream adopted the name of his native town, in Bavaria, and built, in 1530, a large on the Grimma-street of Leipsia, was a friend of Luther, and when sions between Luther and Eck tool Leipsic, he offered to Luther the a house and tables. Luther drank 6 according to popular tradition, Dr. 1

according to popular tradition, Da., out of the cellar of the house upon a event illustrated by a painting a decorates the walls of the cellar, cellar, to this day, from the name of the builder. The scones supposed to have been enacted by Facellar, are graphically described by Go Firust, but they may even to this daized on the spot, by any person who cellar in the evening. The place is a like one of the New York or Philadely bier saloons, with men singing, drin smoking. Especially during the fair is interesting, when the townspecule jed dents in the ambition to maintain and rather diabolical reputation of .



a German poet, w sins Grün, born A; Anstrian duchy o siderable literary ш o eines 37] wy 1 seines ed at mourg m 1831.

Soveral previous punications, although not produced the punication of his later productions, especially the scheet (Leipsic, 1835), and his Gedichts (Leipsic, 1837), are also worthy of much attention. He belongs to the Heine stamp of poets. He may not the remarkable imaginative developeg an

He belongs to the Heine stamp of poets. He has not the remarkable imaginative development of Heine, but, on the other hand, he is free from the reckless cynicism which stamps he productions of that writer.

AUERSTADT, a village of Thuringia, in imper saxony, 22 miles N. E. from Erfurt, on the road to Leipsic, famous for Davoust's great story over the Prussian army, under the king and the duke of Brunswick, the latter of them died on the field, gained on the same by with the battle of Jena, Oct. 14, 1806.

Davoust, with 35,000 men, beat 50,000.

AUERSWALD, HANS ADOLF EEDMANN VON, Prussian major general, born Oct. 19, 1792, hilled by the mob at Frankfort, Sept. 18, 1848. In his youth he distinguished himself in the Franch wars, and also enjoyed a high repu-

French wars, and also enjoyed a high repu-tation for his scientific attainments, and his liberal political sentiments. In 1848, he was

ected as delegate for Lithuania and western Pressia, and as representative of Neisse, in the Frankfort parliament, where he prin-cipally devoted himself to military affairs, in which he advocated a more popular organiza-tion of the army. During the Schleswig-Holstein excitement, after the news became known that the truce of Malmoe had been ratified by the

that the truce of Maimöe had been ratified by the national assembly, a riot broke out in the streets of Frankfort, and Auerswald, who happened to pass by in company with Prince Felix Lichnowsky, was mobbed by the people, dragged out from the house where he sought a refuge, shot, and killed almost on the spot. The rage of the people was however, principally directed against Lichnowsky, who had many enemies, and who also lost his life on this occasion. A perswald perished his life on this occasion. Auerswald perished, rather because he was in company with the ob-

ot of their hatred, Prince Lichnowsky, than om any personal ill-feeling toward himself. AUFFENBERG, JOSEPH VON, baron, a Geran dramatist, born at Freiburg in 1798, died 1857. In 1839 he was appointed count-mar-al to the grand duke of Baden. He wrote a

reat number of plays, of which only one, Louis XI. in Peronns, obtained much success.

AUGEAN CODEX, an imperfect MS. of a section of the New Testament, which was and in the monastery of Augia Major, Rheinan, whence its name. It is an uncial Rheinan, whence its name. It is an uncial Rhe. without accents, but having the words aparated, contrary to the usual custom of such 1938., and having a dot at the end of each word. It is now in the library of Trinity College, Cambridge, having been purchased by Dr.

Bentley (1718), for 250 Dutch floritains the epistles of St. Paul. both in Sentery (1713), for 800 Duten norms. It contains the epistles of St. Paul, both in Greek and Latin, except that the epistle to the Hebrews is in the Latin only, and the first two chapters of Romans and the first 8 verses of the third chapter are lacking in both versions. The Greek version is written in capitals, the Latin a circumstance Anglo-Saxon characters, which, in the opinion of palæographists, assigns this MS. to western Europe, and to a period somewhere between the 7th and 12th

AUGEAS, a king of Elis, who possessed a reat number of oxen. One of the labors which

Eurystheus imposed upon Hercules was to clean the stables of this potentate in one day. The the stables of this potentate in one day. The hero was to receive a tenth part one of the oxen if he should perform his task. He succeeded in accomplishing it by conducting the rivers Alpheus and Peneus through the stables. But when he demanded the stipulated reward, August and the stable of the

geas refused to give it to him, whereon Hercules slew him and all his sons save Phyleus,

les slew him and all his sons save Phyleus, whom he made king in the room of his father. AUGER, a twisted instrument to make large holes in wood. See Boring Tools.—Auger Making. To the end of a rod of iron, of the proper length, a piece of steel is welded and forged in the shape to form the lip or cutting edge of the auger. The rod is then heated and twisted, by means of a hammer and swedges, into forms appropriate for the kind of auger wanted. This part of the work does not require exactness as it formerly did, and is easily performed. The roughly-twisted auger is heated again, and placed in a machine, invented by Sandford and Smith, where the twist

vented by Sandford and Smith, where the twist is made regular, and the auger straightened. This machine consists of a solid horizontal plate of cast iron, over which a similar plate is made to slide backward and forward between proper suides by means of a pinion and rack. The guides by means of a pinion and rack. The distance between the plates and their angle is regulated according to the size and taper of the auger. What constitutes the novelty of this

machine is that to each of the plates are secured

two steel rods, called whales, running parallel to each other across the plates, at an angle of about 30 degrees with the line of motion. The auger is placed between the plates nearly at right angle with the whales, the extremities of which are made to enter between the two first twists of the auger. The upper plate is then made to slide, and the anger is rolled be-tween them, and the twist is finished by the whales. The whales are more or less inclined

whales. The whales are more or less inclined according to the pitch desired for the augers; they are made tapering for making tapered augers, and they are curved on the plate when it is desired to produce an increasing pitch. The twisted parts are brightened by filing or by grinding on the stone. The lip is ground into shape, a handle is affixed, and the tool is ready for the market.

AUGER Lowe Stroop a French writer and pole

AUGER, Louis Smon, a French writer and politician, born at Paris, Dec. 29, 1772, drowned him-

self in the Seine in a fit of melancholy in Jan. 1839. He displayed, at an early period of his life, a fondness for literary pursuits, and wrote a number of vaudevilles, which, however, were not above mediocrity. Subsequently he became connected as writer and editor with the principal Paris journals of his day, as the Journal de l'Empira, Journal général, Spectateur, Décads philosophique. In 1816 he was admitted a member of the French academy, and put at the head of the dictionary of the academy with a salary of 6,000 francs. After the restoration he wrote many political articles for various papers, and especially for the Journal général, but ruined the paper by his reputation for venality. His selection for so many important offices, for which his literary attainments did not fully qualify him, was attributed to a desire on the part of the authorities to control his pen, and his unpopularity in the academy became still more marked in 1820, when he was put on the committee of the newly-established political censorship. He also made many enemies by his scorching criticisms; in this manner he gave mortal offence to Madame de Genlis, on occasion of demolishing her book on "Woman's Influence upon Literature."

when he was put on the committee of the newly-established political censorship. He also made many enemies by his scorching criticisms; in this manner he gave mortal offence to Madame de Genlis, on occasion of demolishing her book on "Woman's Influence upon Literature."

AUGEREAU, PIEREE FRANÇOIS CHARLES, marshal of the French empire, duke of Castiglione, born Oct. 21, 1757, died June 12, 1815. He was the son of a grocer of Paria, and at an early age entered the Nespolitan army, in which he continued a private until he was 80 years of age, when he quitted the army, and settling at Naples, gained his livelihood by teaching fencing; until, being suspected of revolutionary principles, he was ordered to quit Italy. Entering the republican army of the south, after the revolution, he rose rapidly from grade to grade, by the sheer dint of intrepidity; for he had no military genius, if he had even military talents, which seems to be doubtful—other talent he certainly had none. His manners were rude, coarse, unpolished, almost to the verge of brutality; his avarice was so greedy and shameless, that it passed into a proverb with the army. He was close, sudden, and treacherous, which last quality of his character he showed by betraying two monarchs, within but a few months and his insolence he falled emperor, after his sonly virtue, and that purcook in sonly virtue, and the army of the considered the result of accident, rather than of well-planned stratery. In 179, he was made brigadier-general in the army of the castern of the officers in command of his rata to that the repulse of the officers in command of his rata to t

that he assailed and stormed the Castiglione, in a style, and with a intrepidity, which Napoleon never the overthrow of the directory, a Fructidor, he played the part of h tool, in expectation of the succession the expelled directors; but, being directors of his expectations, he affected the publican, and on the general's re Egypt, held aloof from him, until revolution of Brumaira, when he we most in the worship of the rising sur after the establishment of the control of the stablishment of the control of the co after the establishment of the en rewarded with the baton of a s created duke of Castiglione. In the Austria and Prussia, he greatly dist himself, especially at Jena. At Rylss played unbounded heroism; for, he with a fever that he could hardly at which a lever that he could hardly a he compelled his servants to tie him! dle, and thus led his column into the of the fight. Being wounded, however compelled to fall back, his men we into disorder, and Napoleon, forgettie into disorder, and Napoleon, forgettic lantry of the attempt, in the failure sult, sent him home in diagrace. It in diagrace, and unemployed, during sian expedition, but subsequently distinued in 1814, was intrusted with a full of Lyons, which he pledged himself good to the last; but failing, through means, to make good his word, he was subjected to public censure, and graced. While in retirement at proclamation appeared in his name. proclamation appeared in his ma-ing the emperor as "an odious mean coward, who knew not her comes a soldier;" and, although the of the document has been deals fenders, Napoleon believed in its 2 yet doubtful whether this proclass issued with the month. sued with the marshal's co the weight of the eviden subsequent conduct, confirms, s validates the charge. On the pass leon to his seat of exile in Elba, the arch met his ex-marshal, on th Valence; and both descending fr riages an interview followed, in observed that Augerean had the not brutality, to wear his belinet is the master to whom he owed and which terminated in an alteritable to both parties. On the Louis XVIII., Augereau gave in received the cross of St. Louis, of the 14th division, and was apply the terminated the cross of St. Louis, of the 14th division, and was apply the terminated the control of France. of the 14th division, and was a of France. On the return of Elba, he remained inactive us was actually in Paris, when he turned to his eagles, but Naptrust him, and he received in in the army nor seat in the second restaration of the Bos again, have made his research. again have made his peace

story.

bere he died of dropsy in the chest. IN, an aboriginal prince of the Caof the Guanche race, who lived at he 14th century. He was a native of leame to Europe before the expesthencourt. At the court of Dong of Castile, he mastered the Casacted as interpreter between the id his own race. He accompanied the Spanish conqueror of the Cain 1402, and died at his native

markable as being the only pureanche whose name has been pre-

stired to his seat at

EMILE, a French dramatist, grandilt Lebrun, born at Valence Drome,
30. His first and one of his best draNgué, an antique, produced at the
Acenturière was produced to him, as the author of
a 1850. Le Joueur de flute and
assesteemed. In conjunction with
fred de Musset, he has produced
to, and, with M. Jules Sandeau, La
Acenturie and an opera called Sappho.
a mineral species synonymous with
also used by Dana to designate a
roup of species of the class of anhyse. See Pyrsoxene.

ZE a county in the western part of

2E, a county in the western part of \$99 square miles; pop. 11,338. The . In 1850 the productions were 77,-of wheat, 289,544 of Indian corn, ns of hay. There were 11 churches, r offices, and 580 pupils attending ols. Near the western boundary r 9 miles in length, formed to supsecanal, and occupying the most between the channel of the Ohio uke Erie. This county was formed and Mercer counties, and is named auglaize river. Capital Wahpah-

RG, a city in Bavarian Swabia, rivers Wertach and Lech, claims of the most ancient among the less. Augustus having conquered cians, 12 B. C., established there a language Augusta Vindelicorum, on a spot some already inhabited and called the Huns destroyed it in the 5th d during the wars between Thassilo, varia, and Charlemagne, it likewise ch. In 1276, having become rich industry, the city bought its free-be duke of Swabia, and became a la city. Its prosperity increased It was the principal emporium

de between northern Europe, the se east, previous to the discovery of I the doubling of the Cape of Good merchants, such as the celebrated second vessels on all seas then

known. Its greatest prosperity was toward the end of the 15th and the first part of the 16th century. The arts had there their focus, and the Holbeins and other names known in German history belonged to it. After the war against the Smalcald union the decline of Augsburg began. Many diets and tournaments have been held there. On June 25, 1530, the Protestant princes submitted there to Charles V. the confession of their faith, which bears in history the name of the "Confession of Augsburg." In 1555 was concluded there the religious peace between the emperor and the Protestants. Thus the principal events of the reformation are connected with the name of this city. At the dissolution of the German or the holy Roman empire, Augsburg lost its privileges as a free city, and became incorporated into Bavaria. It is now a chief town of the districts of Swabia and Neuburg, and is the seat of various superior, administrative, judicial, and clerical boards; numerous manufactories yet flourish there; lithography, printing, and the book trade are still the pride of the city. In Augsburg is published the Allgemeine Zeitung, and in the first part of this century almost all the celebrated German names in science and literature found a publisher in the house of Cotta, established at Augsburg for more than

literature found a publisher in the house of Cotta, established at Augsburg for more than 60 years, and for a long time the first, and still one of the foremost publishing establishments of Germany. Augsburg possesses a large public library, which is increasing daily. The collection of various manuscripts, records, and official documents in the archives of the city, is of great importance for the history of the reformation. Pop. 85,000.

AUGSBURG CONFESSION. Charles V., on his accession to the throne of Germany (1520), found his new dominion the theatre of

religious dissensions. He immediately summoned Luther to the diet of Worms (1521), and issued an edict of outlawry against him soon after. But the insurrection in Castile, and the war with France and Italy, called Charles into Spain, and thus diverted his attention from the Lutheran schism. The edict of outlawry was inefficiently enforced, owing to a general wish for a Roman Catholic reform by a large number of the clergy and princes, and the influence of the Lutherans was permitted to increase during the 9 years of the emperor's absence, almost without official attention. The Diet of Spire (1529) had issued a decree for the purpose of conciliating the Lutherans to the proposed Roman Catholic reform, and uniting them against the Sacramentarians and Anabaptists. The Lutherans protested (hence Protestants), and made an unsuccessful effort to unite with Zwingli. At this juncture, Charles returned (1530). The circumstances of his kingdom, both religious and political, demanded prompt attention. The German princes and estates were summoned to convene in diet at Augsburg in June. The summons was conciliatory, and called for aid against the Turks, making no ref-

nce to the religious difficulties of the kingdom, further than to promise at no distant tim a speedy adjustment of them. On the 25th of the month, a confession, prepared by Melanchthon, and approved by Luther, was presented and read by Dr. Christian Bayer in the diet. This ion is said to have been prepared on the bags of the Swabach and Torgau articles, al-though these had been drawn up (1528-1529) in the attempt to unite with the Zwingliaus, and the object of the present confession was to become reconciled to the Roman Catholic reform party. A copy of the confession, in German and English, was delivered to Charles. These cop-ics are not now known to be in existence. Two ys after the rending of the confession, it was delivered to the Roman Catholic theologians for as reply. The reply was read in the diet on the state of August following, and called forth from Melanchthon a defence (Apologia Confessionis), which was afterward enlarged and published in Latin, and then in German. The object of the Angelow Confession was not the angelow Confession was not attained and the Augsburg Confession was not attained, and the edict of the emperor (Sept. 22) gave the Lutherans until the following April to bring themselves into conformity with the requirements of the church, and required their cooperation with the throne against the Zwinglians and Anabaptists. The Augsburg confession and Melanchthon's defence were generally circuated in western Europe, and became a sort of

rallying point among the reformers.

AUGUR, HEZERMAH, an American sculptor, born Feb. 21, 1791, at New Haven, Conn., where he died Jan. 10, 1858. In early life he produced several works of statuary, of which his "Jephthah and his Daughter," in the Trumbull gallery of Yale college, is the best. In addition to his skill as sculptor, he possessed much mechanical genius. His most celebrated achievement is his invention of the carving machine, which is at the present day in general and spaces—ful generation.

and successful operation.

AUGURS, diviners among the Romans. We have very clear indications that the practice of divination existed among the Chaldeans and Egyptians in the time of Moses, in the case of the Egyptian magicians who competed with Aaron in the working of miracles, and the instance of Balak sending for Balaam, who is generally considered to have been a Chaldean priest. Chaldea is probably to be regarded as the cradle of this practice, which very soon became a profession, and had certain rules empirically determined. We are not sufficiently acquainted with Chaldean magic to enable us to describe with any great degree of accuracy the means and manner of its divinations. But of one thing we are certain, the earliest form of Chaldean magic was astrology, and the recent discoveries in Chaldea and Susiana by Mr. Loftus carry back the existence of this practice to a period very near that of the deluge. In Ur of the Chaldees Abraham dwelt with Terah his father, and tradition says that Terah was a maker of images. But image-worship in Babylonia cer-

tainly was subsequent in time to that of the ship. From Chaldea this cultus passed into and from Egypt to Greece, whence the B received it. But meanwhile, the super of each nation through whose has sed, had added something both to the of its province, and the code of rules by it was governed. In Greece and Rom we have more definite knowledge of its m as an art, and its connection with the r and political history of the people, astrolo er had ceased to have the importance it which it had maintained in Chalden, the word augury itself would indicate, eminence had been given to omens tak the flight of birds. The word augurs is from avigerium, and the prevalent che Roman augury is still more clearly ind that nearly synonymous and more and auspices. Some heavenly phenomena observed, enough to preserve a recog the origin of augury; but this urigin is as clearly demonstrated in the univer-ence to the cardinal points of the con which nearly every thing in the art of both among the Greeks and Romans, d The Greek augurs always faced the nor the Roman augurs faced the south. the east were generally lucky, while the west were unlucky. Hence the G his right hand synonymous with goo while the Roman gave that honor Later in Roman history, when the Gre ture passed with Greek arms into augury had at the same time declined over the Roman mind, sinister becam nyme for bad fortune, and dext Auguries were made both from the of ascribing wisdom to birds is go posed to be that on account of rapid locomotion, as well as from the position, they could see many thing in different places of which men mu rant. Beside, certain birds were see gods. From birds perhaps the tra easy and natural, among a superstit easy and natural, among a super to fowls which do not fly. I were made use of especially in from. But celestial phenomen while, not altogether disregard and Roman augury. Lightning observed by the augurs, and any phenomena such as majors. phenomena, such as meteors The reason for the decline of as an element of Roman and may have been that an apper control of law in the motions bodies, had begun to pervada masses of the people, and thus to sidereal phenomena the notion of presence of an invisible agence attributed to what appear to recess or spontaneous movement that the direction in which a be ing of a cock, the lin

r in which | cooped: aked his corn, us actions, to pe inent harns anu were some or anial occurrences, which were reckoned as an animal crossing one's path, IOLA M.I, fit of sneezing, or sudden melancholy, the silling of salt on the table, or of wine upon as clothes. And it is remarkable that in protion to the frivolous and accidental character the incident has been its hold on the popular nind as an element of augury. Indeed, the por-lon of that ancient system of divination which as reached down to our day consists in the threds and patches of salt spilling, sneezing, and dropping of forks, and seeing the new moon over one's shoulder, as good or bad signs. The power of the Greek and Roman augurs was ery great, ardless of great. They held their offices for life, re-ss of character. They were at first 8 in number, and were chosen one from each of the 3 tribes of the patricians. Cicero says that Romulus, who was himself an augur, associated 3 with himself in the office. This would make and would also seem to intimate that the su eme functionary of the state held the rank of mour exofficio, but this was probably the case only in the first instance. For the manner in which the augurs were chosen afterward would cem to preclude the idea that any person was dmitted by virtue of any other official function. the Roman calendar. The number of the augurs is said by Livy to be dependent upon the number of the tribes. If this were the case, then the number must always have been 3, or some multiple of 8. But Livy himself admits that prior to the passage of the Ogulnian law the number of augurs was 4. The reason of this is probably to be found in the fact that the tribes Ramnenses and Ti-Ramnenses and Titieness being composed of the older colonies of Ramnes and Sabines, had greater civil power than the Succreases or Etruscans, who were colonized later, and therefore the Succreases were distranchised in the augural college by the other 2, who elected 2 augurs each. Or it may be that the Ramnenses, being prior to both the other 2, had the right of 2 augurs, while the remaining tribes had one each. However this may be, the augurs were at first elected by this may be, the augurs were at first elected by the conitia curiata, a patrician assembly, until the Ogulnian law which admitted the plebeian element, and enlarged the number of augurs first to 9, then to 15, and a 16th was added by Julius Cosar. Meanwhile, previous to this, every election must be ratified by the college itself. This power of veto afterward gradually resulted in the usurpation by the college of the right to elect its own members by cooptation (452 B. C.), which right they retained, with the exception of the first election of plebeian

angurs, for 350 years, until the passage of the Domitian law, which removed the power of election to the tribes. But with all the restraints which were gradually imposed upon the encroaching tendencies of the augural college

civil power, it had an importentire . The most authoritative enactments on the state throughout its
the entire . The most authoritative enactments on the state of a live repeatedly annulled
by the entrance of augur into the assembly,
pronouncing the powent words alio dia, and
their independence of the patrician and even of
the royal power, is well illustrated in the contest of Attus Nævius, an augur, with Tarquinius the Elder, who compelled the emperor
to modify his original purpose in deference
to the augural college. For a long time the
contest between the patricians and the plebeians was unfavorable to the success of the
democratic element, on account of the superstitious veneration with which the plebeians
regarded the auspices, and even had they obtained the higher magistracies, while the augural college remained closed to them, they never
could have achieved an equality with the patricians. The order of augurs existed until the
etime of Theodosius the Great, whose edict for
the total abolition of paganism throughout the
empire, was issued A. D. 891. From the time
of the admission of the plebeian element to its
privileges 300 B. C., it had gradually declined.
Still, so great was the hold of this superstition
upon the popular mind, "that a Christian
bishop, in the 14th century, found it necessary
to issue an edict against it."

AUGUST, a month of the year, derived from
the Roman calendar. The Romans called this

the Roman calendar. The Romans called this month originally, Sextilis, or the 6th month of their year, which began with March. Julius Cæsar made it 80 days in length, and Augustus increased it to 81. As it was the month in which Augustus Cæsar had entered upon his 1st consulship, had celebrated three triumphs in the city, had received the allegiance of the soldiers who occupied the Janiculum, had subdued Egypt, and put an end to civil war—the senate, in order to flatter him, changed the name of the month into Augustus, in the same way that Quinctilis had been changed into Julius in the preceding reign. The Flemings and Germans have adopted the word August as another word for harvest. Thus cogst mand, is the harvest month; so the German August as another word for harvest. Thus cogst mand, is the harvest wagon; and the Dutch Cogsten, to gather corn from the field. The Spaniards use the verb agostar, to gather in harvest, and the French and Spaniards have the phrases faire laout and haver su augusta, to signify harvesting. The Saxons in Britain named August the weed month. The old Germans named it Weinkoch, the wine-press month. The mythological representation of August is that of a naked man

with wildly streaming hair, holding up to his mouth with both hands a drinking horn; at his side are a bundle of peacock's feathers, 8 melons, and a large drinking vessel.

AUGUST, the name of various German princes. I. WILHELM, prince of Prussia, brother of Frederic the Great, and general of the Prussian army, born at Berlin, 1722, and died in 1758. He took an active part in the Silesian

campaign, and distinguished himself at the battle of Hohenfriedberg (in June, 1745), but owing to the fatal retreat of Zittau, in 1756, he incurred the displeasure of his brother, and withdrew from the army. This conflict between the two brothers led to a correspondence, which was published in 1769. II. EMIL LEOPOLD, duke axe-Gotha and Altenburg, successor to the throne, April 20, 1804. He was twice married, and the first marriage left him issue, one daughter, who became the reigning duchess of Saxe-Coburg, and died in 1822. By the second marriage he had no children, and on his death he was succeeded on the throne by his brother, Frederic IV., with whose decease, Feb. 11, 1825, the line of Saxe-Gotha became extinct. Duke August Emil Leopold was a favorite of Napoleon, and his duchy enjoyed perfect immunity from the burdens of French invasions and French wars. He was a man of taste and considerable literary talent. III. FRIEDERCH and French wars. He was a man of taste and considerable literary talent. III. FRIEDRICH WILHELM HEINEIGH, Prince of Prussia, born Sept. 19, 1790, died July 19, 1848, at Bromberg, the son of Prince August Ferdinand, the brother of Frederic the Great, who died in 1813. He inherited a large fortune of his father and of his brother Louis Ferdinand, who perished at the battle of Saalfeld, in 1806, and was considered one of the richest men in Prussia. He left various children by morganatic marriages. various children by morganatic marriages. took an active part in the campaign against Napoleon in 1806, by whom he was taken pris-oner, and detained in Paris until after the peace oner, and detained in Paris until after the peace of Tilsit. On his return to Prussia in 1818, he resumed his duties in the Prussia army, fought at Dresden, Ulm, and Leipsic, distinguished himself during the campaign of 1814, on various occasions, and bore throughout his life the character of a gallant soldier and an upright man. IV. PAUL FRIEDRICH, grand duke of Oldenburg, born in 1783, died Feb. 27, 1858, mounted the throne May 21, 1829, under the title of grand duke, which had been conferred upon his family, by the congress of Vienna; but of which his father had never availed himself. When Oldenburg was invaded by the French, in 1811, he accompanied his father to Russia, where his younger brother (born in 1784, Russia, where his younger brother (born in 1784, died in 1812) was married to the grand duches Catharine. He distinguished hims so much so much in the Russian war, especially at Borodino, that in 1813 he vernor of Revel. His reign, Oklenburg, was marked by rial progress. In 1830, he con with Prussia for the annexation of Lar the Prussian-Hessian Zollverein, and a cal treaty of navigation. In 1836, he upon Hanover and Brunswick to make upon rianover and Brunswick to make tory arrangements for the regulation on exiduties. In 1831, he laid the foundation for a constitution of Oldenburg, which was ratified in 1848, and which, although modified in 1852, still secures much civil and religious freed to the people. In 1817, he married the Adelaide, of Anhalt-Bernburg, who

1830, leaving him two uphters, Freises and Amalia; the latter, in 1835, burned a King Otho, of Greece. In 1825, be married a sister of his first w___, Ida, who died in 184 having borne him a son. In 1831, be married the third time, Cecilia, the youngest dangered the former king of Sweden, Gustavus IV. May phua, who died in 1844, also leaving a see the was succeeded by his first son Nickels finderic Peter, the present grand duke of Oktoburg.

AUGUSTA, a county nearly in the central Virginia, and forming part of the great until that extends along the N. W. base of the Bridge. It was distinguished for its level the revolutionary cause, for which it was mended by Washington. It was set of forming county in 1738. The surface is elemand uneven; the soil, which is drained by source of the Shenandeah and James rives calcareous, and productive of grain and Its staples are corn, wheat, cats, but Its staples are corn, wheat, cats, but Its produced more hay in 1850 than any county in the state, except Reckington calcareous, and the county in the state, except Reckington calcareous, and the county in the state, except Reckington calcareous, and the county in th

AUGUSTA, a city, seat of justice of Eabee county, Maine, and capital of that the Kennebec river, on the western which the main portion of the town above and removed from the river, and banks of which is the business quarter. One east side of the river, which is parallel bridge 520 feet long, is the U.S. are rounded with tastefully ordered plots of this building contains a large supply and unitions of war. By the construction

This building contains a large supply of and unitions of war. By the construction 584 feet in length, across the Kennisove the city, an enormous power last the navigation of the river north the has been made easy. As able places in Augusta, is a hospital and, which overlooks a landscape of beauty. Augusta has 9 churches, ming female academy. It has also so of cotton and woodlen goods in 1754. Pup. in 1854, 10,000.

rn terminas of the ad of navigation st

Savannah rive way, which si wagons, Augu few years has

completion of the the previous trafflo med, but within the advanced in every re-

radvanced in every receit, It is a his city, well built, with a straight streets, and connected by a bridge of the Savannah, with Hamburg, South Carothe Savannah, 9 miles in length, and the waters of the Savannah near the some 40 feet above the level, and thus reds inexhaustible power for factories. Authorities a hospital, arsenal, 6 banks, and poorts 6 newspapers. It communicates daily the Savannah by steamboats. Pop. in 1857,

AUGUSTA, JOHANN, a Bohemian theologian, AUGUSTA, JOHANN, a Bohemian theologian, sorn at Prague, 1500, died Jan. 15, 1575. He sendied theology at the school of Kölaw-Kornna. On his death, Augusta went to Wittenberg, and entered into close communion with Luther and Melanethon, without in all points of discipline agreeing with them. He became later aminister of the sect of Bohemian Brothers, and eas employed by both that sect and Luther to ring about a reconciliation between the Bohetions and the German Protestants. In conse-tence of this understanding, the Bohemian frothers refused to cooperate with the arch-lake Ferdinand, in the Smalcaldic war against the Protestants; a contumacy which Ferdinand the war was over, by banishing the whole sect, and arresting the principal preachers. Augusta, in the garb of a peasant, was taken in chains to Prague, and thrown into prison. The Catholics accused him of wishing to put the elector of Saxony upon the lector of Saxony upon the part of the part

Bobemian throne: he denied this charge. His liberty was offered to him if he would make a ublic recantation, and become a Catholic, or a He refused, and remained in prison

Fyers. The death of Ferdinand (1564) re-15 years. The death of rerumand (1902) lessed him, but he was obliged to promise not preach again.
AUGUSTA HISTORIA, the name given to s of Roman biographers of the emperors from the accession of Hadrian to the death of Carinus, the predecessor of Diocletian. They cover a period of 167 years. The writers in number, and this collection are six in number, and Klaus Spartianus, Julius Capitolinus, and Klaus Vanianus of Syraeuse. Pollio, and Flavius Vopiscus, of Syracuse. me editors have included others, as Eutro-m and Paulus Diaconus. There is a break in the Augusta Historia in the absence of the Rives of Philippus, Decius, and Gallus. The Bipont edition is the best.

AUGUSTAN AGE, the Latin literary epoch

of the reign of the emperor Augustus Ossar. During this period Cicero, Horace, Ovid, Virgil, Catullus, Tibullus, and other writers flourished; also great patrons of literature like Mecenas.

The purest Latinity belongs to the authors of
the Augustan age. In English literature it was
common in the last century to apply the phrase "Augustan age of English literature," to the times of Addison, Steele, Swift, and Defoe, and times of Addison, Steele, Swift, and Defoe, and the writers during the reign of Queen Anne. The siècle d'Auguste of French literature is the latter years of the reign of Louis XIV. This metaphor has no modern application beyond the literature of France and England.

AUGUSTENBURG, a place of 800 inhabitants, on the island of Alsen, belonging to Denmark, and known as the residence of the ducal family of Holstein-Sonderburg-Augustenburg.

John, a brother of King Frederic II. of Den-

John, a brother of King Frederic II. of Den-

—John, a brother of King Frederic II. of Denmark, established the ducal line of Holstein-Sonderburg, and Ernest Gunther (1609–1687), a lineal descendant of John, was the founder of the collateral line of this house, named above. His successors were: Frederic William (1668–1714), Christian Augustus (1696–1754), Frederic Christian I. (1781–1794), Frederic Christian II. (1765–1824), and Christian Charles Frederic Augustus, the present duke, born July 19, 1798.—A younger brother of Frederic Freder

Charles Frederic Augustus, the present duke, born July 19, 1798.—A younger brother of Frederic Christian II., Charles Frederic Augustus, born in 1768, was, in 1809, elected heir to the throne of Sweden, but died by accident in the same year.—The dukes of Augustanburg have generally led the life of rich noblemen, and their name would have no special place in history if the probable extinction of the royal line of Denmark had not brought them forward as legitimate successors to the throne in the duchies of Schleswig and Holstein. In 1846 Christian VIII. of Denmark, in anticipation of Christian VIII. of Denmark, in anticipation of the extinction of his own royal line, issued a manifesto proclaiming the integrity of the whole Danish kingdom. He did so contrary to all existing laws of succession, the female line being entitled to succeed in Denmark, but not so in the duchies. The case was exactly not so in the duchies. The case was exactly analogous to that of Hanover, which, on the accession of Queen Victoria to the throne of England, escheated to the duke of Cumberland. This coup d'etat of Christian VIII. was followed up by various measures intended to entirely amalgamate the German duchies with the Danish kingdom. The people of Schleswig Holstein rose, in 1848, to maintain their independence, and were supported for some time by the German powers, while the revolutionary and national feeling, awakened by the events of that year, was still strong. The duke of Augustenburg and his younger brother (Frederic Ernest Augustus, prince of Roer, born Aug. 27, 1800), naturally desirous of vindicating their right of succession, took a prominent part in

right of succession, took a prominent part in this movement, and, at a time when no very nice distinctions were drawn, got credit for enlarged and liberal political views. But they were neither more nor less than pretenders, anxious for their own advancement, and using the popular feeling merely as an instru-ment of their ambition. Thus they did much ment of their ambition. Thus they did much more harm than good to the cause of the duchies. They used every means to separate the cause of the dynastical independence of the duchies from that of popular liberty, while, in reality, the latter was the only source of strength to the former. By scheming diplomacy, the duke of Augustenburg aided in suppressing the popular movement in 1851, vainly hoping that the great powers of Europe would recognize his rights. His hopes were destroyed by the act of England, which, as many have the proposed a policy contrary to her own thought, pursued a policy contrary to her own interests, by siding with Prussia in subjecting the duchies to Denmark. He was treated by the Danish government as a traitor, was ex-cluded from the partial amnesty granted in 1852 to the participators in the movement of 1848, and his estates were confiscated. In 1852 he sold all his claims, including the right of ssion to the Danish crown, for 2 million dollars, but his brother immediately protested against this transaction, insisting on the hereditary title of the Augustenburg line to the duchies. It was believed at that time, as it is now, that the duke, when closing his arrangement with Denmark, was acting unfairly, having had full knowledge of his brother's intentions. However this may be, the Augusten-burgs are still considered as legitimate pretenders and when, in 1856, new complications arose, in consequence of the attempts of Denmark to crush out even the last remnants of provincial independence in the duchies, the name of the duke of Augustenburg was again mentioned as one intimately connected with the ultimate solution of this question. Since his banishment from Denmark, he has principally resided on his estate at Primkenau in Silesia, where, toward the close of 1857, he was visited by the duke of Saxe-Gotha, a fact widely commented upon as one among many indications of the duke of Gotha's desire to put himself in a prominent position as a candidate for the imperial throne of Germany, if another revolution should accom-plish the objects of those who are striving for the reconstruction of German nationality. The duke of Augustenburg has 2 sons, viz.: Frederic Christian Augustus, born July 6, 1829, and Frederic Christian Charles Augustus, born

Jan. 22, 1831.

AUGUSTI, Johann Christian Whiliam, a German theologian, the grandson of a Jewish rabbi, convert to Christianity, was born in 1772, at Eschenberga, in Gotha and died at Coblentz, in 1841. He studied at John, and subsequently became professor of philosophy and oriental languages in that university. In 1811 he accepted the charge of theology in the university of Breslau; in 1819, he was appointed chief professor of theology in the newly established university of Bonn; in 1837, he was placed at the head of the ecclesianted affairs of the Rhenish province of Prussia by being appointed director of the consistory of Coblentz. Augusti was one of the most voluminous theological writers of Germany. The most important of all his work, is the Descripting Steller aus de 13 vola. 8vo, Leipsic, 1817-31.

eminent position. Although August jub so-called critical or philosophical school ology, his mind was on the whole act as clined to speculative investigation. He orthodox Lutheran in doctrine, and del last 40 years of his life, a scalous about the established form of religion.

AUGUSTIN, or Ausers Sr., as Canterbury, sometimes called the as English, born probably in the first 6th century, died at Canterbury b and 614. He was a Benedictine a monastery of St. Andrew, at Rom was selected by Pope Gragory I. monks, to convert the Saxons of Christianity. He landed in the d Ethelbert, king of Kant, in 596, was Ethelbert, king of Kent, in 594, was received and allowed to preach to talthough the king himself steadily although the king himself stee forsake the gods of his fathers. of his wife, a Christian princes, preaching of Augustin, finally pre-was baptized, after which the e missionaries were crowned with ea cess, not in Kent alone, but three whole Saxon heptarehy. The so of Augustin and his brethren, are mirabulous power in the restoration and even of life, which he had acquired ample of the king, and the fact that the ern races of Europe which had emb tianity, were far before them in civi prosperity, made a deep impressi Saxon people, never very devotedly their national religion, and their conv to have been very general—that it is said that 10,000 per in a single day. Much of this si doubtedly due to the sagacious man the prejudices of the Saxons were Gregory and Augustin. Their ter of being destroyed, were simply the new faith and used as churche of their rude festivals, at which go indulged in freely, were convert ligious feasts, without losing th social character. Augustin, it ed no coercive measures to be agating the gospel; but probabl adopted by many. His successive them unnocessary. His successive appointed by the pope arch be appointed by the pope arch being the supreme sutherity. bury, with supreme authorit of England. The see of Yo established, and a number of Augustin wished to establ ligious customs over the ignors customs ever the wind for that purpose appointed is with the British bishops of successors of converts of the had declared their independs of Rome, which, however, fa The British church refused cipline or dectrine with the unite with it. A number were soon after put to death,

th the deed, but on no very His relies were preserved in Canterbury.

AURLIUS, saint, and doctor irch, was born Nov. 18, 854, all town of Numidia, in Africa, rthage. His father, Patricius, bleman of moderate fortune, r, Monica, also sainted by the the beginning an earnest and Her prayers and efforts were son might grow up in the faith hed. The natural gifts of the soon became evident, and gave him full opportunity for. He was sent to the best ura and Carthage, and set to scipal branches of pagan cul-trust the strong self-accusa-of "Confessions," his conduct f his life was far from exemled astray by evil companions s and the seductions of city sh of his time in follies and ed profane amusements. His fly in the heathen poets, were the development of his fancy an to his Christian growth.

father, which threw him upon

es, and the influence of some

cks, especially the Hortensius

him from his irregular life to arty search after truth. Unin the writings of the Greek es, and quite dissatisfied with nim the crude and fragmentary Jewish and Christian Scrip d the most recent form of hy, which bore the name of dean. The mystical phrases. dean. The mystical phrases, ieralities, the profound specu-han the pure morality, of this captivated the young rhetorisistical and a second s piritual pride was flattered in elect a society as that of the hren. His distinction as a abols of Tagaste and Carthage this mother's thoughts from his heresy. For the 9 years d as the friend of this deluase to labor for his rescue. ligies came to sustain her sinkas encouraged to pray and . And though at last she had knowing that he had tired peophy, and had become sick retensions and its superficial an bore the name of Dr. Fausmourn that neither her own warning death of a youthful the heart of the philosophic bristian scheme of salvation. ary of astrology and phi-and pleasure. which had ary, too, of mother's

crossed the great sea to the city of Rome. hopes were realized, and in a short time his reputation as a teacher of eloquence rivalled that of the great Symmachus, then at the height of his renown. The younger and the elder masters of oratory became friends. And when the summons came from Milan, at that time the emperor's residence, for a teacher of rhetoric, Symmachus had no hesitation in sending this friend, whom the hollowness of effete Roman paganism had already disgusted no hesitation in At this time Ambrose was bishop of Milan, and Augustine's first care was to hear and to know so famous a preacher and so great a man. The natural result was a conversion to Christ. But this did not take place at once. Only after repeated interviews, prolonged conversations, severe conflicts of soul, the strife of passion with conviction, and many providential occurrences, such as the song of a child from a neighboring such as the song of a child from a neighboring house, the conversion of his own youthful son, an offspring of sin, the happy presence of his watchful mother, the accidental reading of a passage from St. Paul's epistles, did his obstinate heart yield to Christian persuasion, and his reason consent to the faith of his childhood. The history of his conversion forms the most touching and striking chapter in his "Confessions." After 8 months of seclusion, which he spent with his mother and brother, and son, in spent with his mother and brother, and son, in spent with his mother and brother, and son, in a rural retreat, preparing for his confirmation in the church, and maturing his plans for the future, Augustine returned to Milan, and in the Easter week of the year 387 was baptized, together with his son and brother, by the hand of Ambrose. He at once set out on his return to Africa. On his way he was called to part with his mother, and he describes in affecting words his anguish at committing her remains to the his anguish at committing her remains to the ground. A small chapel among the ruins of stia, marks the traditional spot of her burial. The death of his son, which took place soon after his return, deepened his grief, and confirmed his inclination to the monastic life. He retired to Tagaste, and passed nearly 8 rears in a studious and prayerful seclusion, varied only by occasional visits to the neighboring towns. On one of these visits, when he boring towns. was present in the church at Hippo, a sermon which the bishop Valerius delivered asking for a priest to assist him in his church, turned all eyes toward this famous scholar. No refusals were allowed, and Augustine was ordained to assist at the altar in the priestly office. Preaching soon was added to his duties, an exception being made in his case to the usual rule, and the periods of the African orator in harsh Latin, or the harsher Punic tongue, were received with that vehement applause which honored the golden-mouthed bishop in the pulpit of Hymnitum. Souls were converted, rich men mound to give, and popular tumult subdued, by overpowering pathos of Augustine's plant the priest was called to be assistant his then by the death of the elder make whole charge of the church of Egypt

trusted to his care. He retained the office until his death—a period of 35 years—discharging its duties with a zeal, a fidelity, a vigor, which were the wonder of all the Christian world. The details of his extraordinary episcopal life are minutely related by his friend Possidius, whose admiration of the great teacher knew no bound. We learn that he preached every day and sometimes twice in the day; that he was frugal in his domestic arrangements withal, being a strict ascetic, requiring of his attendant priests and deacons an equal simplicity of diet and dress; given to hospitality, yet without display; very reserved in his intercourse with the female sex, though like Jerome, he founded and gave rules to a convent of women; warmly interested in every kind of charity, whether private alms or vast hospitals; courteous in his bearing, welcoming even infidels to his table; bold against all wick edness and wrong, whatever the rank of the transgressor; untiring in his visits to widows and orphans, to the sick and the afflicted; a foe to all show and ostentation, either in dress or in piety; firm in his exercise of authority, yet mild in his rephylor, taying his slender or in piety; firm in his exercise of authority, yet mild in his rebukes; taxing his slender physical strength by the severity of his studies, yet omitting no necessary active work; challenging, by his multiplied labors as a writer, a preacher, a philanthropist, and a magistrate, the admiration of the whole Christian world. Every sect of heretics found in him a most fearless and persevering adversary. He dis-Every sect of heretics found in him a most fearless and persevering adversary. He dis-puted with Manicheans, with Arians, with the followers of Priscillian, of Origen and Tertullian, with the powerful and violent party of the Donatists, with the monk Morgan, whose sur-name of Pelagius gave title to the second great heresy in Christian history, and with many of the disciples of this man, and allowed no doubt-ful utterance of doctrine to pass without his ful utterance of doctrine to pass without his questioning. To his industry in controversy questioning. To his industry in controversy must be added his vast and multifarious correspondence with emperors and nobles, with doc-tors and missionaries, with bishops in every quarter of the world, on questions of dogma, of discipline, and of policy—his solid works of commentary, criticism, morality, philosophy, and theology, and even his poetry, for to him are attributed several of the sweetest hymns of are attributed several of the sweetest hymns of the Catholic anthology. The titles alone of the works of Augustine make a long entalogue, too long to be given here. The single volume of "Sermons" contains nearly 700 pieces, shorter, indeed, and less ornate than the celebrated ser-mons of Basil and Chrysostom, but justifying Augustine's reputation for sacred oratory. The volume of "Commentaries on the Psalms" is more rich in practical remarks than in accurate more rich in practical remarks than in accurate learning, and leaves us to regret that Augustine learning, and leaves us to regret that Angustane was not a Hebrew scholar. His remarks upon the "Four Gospels" are more valuable, particularly his judgment that Matthew's gospel was not originally written in Greek. His work on the "Care that should be Taken for the Dead" contains some striking views concerning the relation of the living to disembodied souls,

The volume of his "Epistles" is re-not only as illustrating his best style finest traits in his character—his clar charity, his moderation, his freeden guile and malice. The heart of the m in these communications. Many of ters, moreover, are full treatises on points of faith and discipline.—The Augustine, in the dogmatic history church, is best known in connection heresy of Pelagius, as the defender of h native depravity, of God's sovereign salvation, and of God's predestinate fate of men. But the works of his, we most widely known and most offer his "Confessions" and his "City of 6 the first of these works, written just conversion, he gives a history of his that time, not so much in its outwar stance as in its inward experience as The work is divided into 13 books, the last 3, however, are only a coupon the account of the Genels, nothing to do with the personal histo long popularity of this half-mystical a soul at strife with itself, confused, but at last saved and peaceful, attests and its power. It has been trans every Christian tongue, It is cla choicest memorials of devotion, both lic and Protestant oratories, with the tions" of A Kempts, the poems of the allegory of Bunyan, the poems of the "Saints' Rest" of Baxter, and the colorist Law. We may of A Kempis, the visions of reverie, rather than a narrative is dressed to God, and it moves a adoring rapture of grateful devotion. a common want, and it will conti yet to be a manual for the penits will remain for the critic a curisus has been imitated often by preach even by sentimental sceptics, yet fully caught the solemn beauty of It is at once plaintive and sugging sympathy and quickening is sending the thought of the resi hours of prayer and suffering, hours of prayer and suffering, home in the heavens.—But spirit of Augustine finds its ance in his noble work called God." This is, beyond all que-ment of highest genius in the and in its kind it has never Its idea was first conceived w of the barbarian devastation of his ears. Its immediate nor his ears. Its immedia cate the faith of the gr Its immediate who represented Christian the wee and danger which the world. It is divided books or chapters. Of the the ancient gods is e perity, and that miser the decline of this we

those who maintain that the woran deities is useful for the spiritual remaining 12 books are employed in the the doctrine of the Christian reer the somewhat fanciful form of eir origin, their progress, and their rhythmic order of the work—the agination on which its narrative and nt, its historic illustrations, its nice its sad review of follies, superstitions, ith and errors in practice, seem to the fervor of its piety, if not the prophecy—the changes of tone from prophecy—the changes of tone from key of a funeral strain to the tri-ision of Christian victory, justify us it with the greatest epics of the e may say of it, as was said of Var-iquities of Rome," that it shows so ing that we wonder how one could to write it. In the light of subse ory it seems one long prediction of the cross. Here Augustine self far in advance of his age. While er far in advance of his age. While review of the dying paganism ref that custom of Egypt whose kings d before their burial, his picture of ociety, of the course of Providence in an history, and the principles which this higher state, anticipates the deof later ages. Some have seemed it the doctrine of progress and the it the doctrine of progress, and the hich it sets before us is certainly a f ideas and sentiments, of righteousrance, peace, and freedom. It de-rath of equality in the spiritual state, to all the children of God. Its de-hose of a too vivid fancy and a too storic. Yet it deserves the verdict emperor Charlemagne declared con-

It is a true picture of a Christian The influence of Augustine upon his id upon all succeeding ages of Christian The influence of Augustine upon his id upon all succeeding ages of Christian Christian Christian and Is a sainthood. It that he was at once the purest, the the holiest of men, equally mild and ly prudent and fearless, equally a nen and a lover of God, at once a and a mystic, a student and a his singular humility manifold inrecorded. His severe self-discipline estrictest instances of the hermit s "Retractations," that work of old after he finished his 70th year, he the ground of his long and various ews his writings, taking back whatabtful or extravagant, harmonizing opinions, and winnowing out the from what he regarded as this vast cumulated chaff. He left to the is last labor, not only his testament, of his candid and truth-loving aid of a coadjutor relieved Augustter years, of a portion of his respontances.

stantly presented to him. When Genseric and his Vandals showed themselves on the coasts of Africa, the question was put to him, if it were lawful for a bishop at such a season to fly and leave his flock. The answer which he made was illustrated by his own course. He calmly waited for the threatened approach, and when the fleet of the foe were in the bay of Hippo, and the army were encamped before the walls, exerted himself only to quiet the fears and sustain the faith of his brethren. It was not permitted him to witness the catastrophe. A propitious fever hastened his fate, so that he had not to know the ruin of the city that he loved. The bishop Possidius, who watched at his bedside, gives an edifying account of his last days, so consistent with the tenor of his life, and of the grief of the people at his loss. He died Aug. 28, 430, at the age of 76, and that day is observed as the day of his remembrance. His relics were afterward transported to Italy, and mostly rest at present in the cathedral of Pavia. Within the present century, the bone of his right arm has, with solemn pomp, been returned to the church of Bona, in Africa, which occupies the site of ancient Hippo. The best edition of Augustine's works is that of the Benedictines, published at Paris and at Antwerp at the close of the 17th century, in 11 vols. folio. An edition in 11 volumes was also published in Paris in 1836—'39. An additional volume of sermons, before unpublished, found at Monte Cassino and Florence, was published in Paris in 1842.

AUGUSTINIANS, or Hermits of St. Augustine, a religious order in the Roman Catholic church. This order professes to trace its origin to the great bishop of Hippo, and to have received its rule from him, although many Catholic writers dispute the fact. It appears from the life of St. Augustine, that in the year 388, before his ordination, he erected a kind of hermitage on a little farm belonging to himself near Tagaste, where, with several friends, he passed his time, in seclusion, occupied with study and ascetic exercises. After he became a priest at Hippo, he established a similar retreat in a garden, presented to him by the bishop, and during his subsequent episcopate he had his clergy living with him in his house, under a kind of monastic rule. From these circumstances, he has been looked upon as the founder and special patron of a certain class of religious communities, and many of their rules have been drawn from his writings. The present order of hermits of St. Augustine, was formed by uniting several societies previously distinct. This was done by Alexander IV. in the year 1256, and a rule was given them, attributed to St. Augustine. In 1567, the Augustinians were enrolled among the mendicant orders. In England, they were usually called Black Friars, from the color of their habit. There are several distinct branches of Augustinians whose rule is more severe than that of the principal body; they are governed by vicars-general, who are

subordinate to the general. Rome is the chiefseat of the order. The number of convents is
about 100. There is a large and beautiful church
belonging to the Augustinians, with a convent
adjoining, at Philadelphia; also a college, with
a monastery and a well-cultivated farm adjoining, at Villanova, Delaware County, Pa.,
about 15 miles from Philadelphia.—Augustimian Canons are a separate body of canons regular attached to the Lateran basilica and few
other churches.—Several religious orders of
females belong also to the Augustinian family.

ular attached to the Lateran basilica and few other churches.—Several religious orders of females belong also to the Augustinian family. AUGUSTOVO, or AUGUSTOV, a province and city of Russian Poland. The province lies between lat. 53° 40′, and 55° 5′ N., and is the most northern of the 8 palatinates into which Poland was formerly divided. A large part of its surface is covered with lakes, marshes, and forests. Its area is 7,000 square miles, and its population is about 810,000. The town lies on an affluent of the Narev, 140 miles N. E. from Warsaw. It was founded by Sigismund in 1557, has trade in cattle, woollen, and linen manufactures, and a population of 8,850.—Camal of Augustovo, a canal of Poland, which, by connecting the Narev with the Niemen river, unites the Vistula with the Baltic. It extends from Wizna on the Narev to a point on the Niemen, 14 miles N. of Grodno. It is 150 miles in length, from 5 to 6 feet deep; has 17 locks, and was completed in 1881.

AUGUSTULUS, Romulus, the son of Orestes,

AUGUSTULUS, ROMULUS, the son of Orestes, and the last Roman emperor of the West, was remarkable only for his weakness and the beauty of his person; on the defeat of Orestes at Pavia, and his subsequent execution, Augustulus was forced to abdicate,—he was banished to the castle of Lucullus, in Campania, where he received an annual allowance of 6,000 pieces of gold.

AUGUSTUS, CAIUS OCTAVIUS OZSAR. sec-

of gold.

AUGUSTUS, CAIUS OOTAVITS OZSAR, second emperor of Rome, born Sept. 23, 63 B. C., died Aug. 29, A. D. 14. He was the son of Caius Octavius, of Velitre, a city of the Volsci, and Attia, the daughter of Julia, the sister of Caius Julius Cassar, the dictator. The obscure name of Caius Octavius, which he received from his father he d ified fi by chai Octavius. ified fi his father, he d by cha · Octavins into () ly. he after he because the illustrious by receiving from pellation, then first a responding to the G "the venerable," and w the future emperors, bottom West. He was brought up uy in no children, and, though he is played some talents and activity in sphe had accompanied his uncle, he had made no mark, nor given any indicati great part he was about to play, in the the world. He was living in r lonia, in Epirus, when he he death, and of his own will; when he instantly

which, he do d, was simply "to a Cessar and to his legacy to the I people." With the exception of his name was nothing in his person to please the sellength to had neither scars nor trophies to the knew not how to set a battalion in he was personally unknown to the in the was but eighteen years old, mean sickly, lame, afraid of thunder, afraid of weapons, afraid of means and an interest. The had sufficient audacity. He had need of it, when to claim the succession of Casar." more, he had the deepest dissimal deepest policy—singular astuteness, a selfishness; and, by a rare union of describable qualities, he subjected to talents and sacrificed all interests. In Rome while the agitation cases knew not how to set a battalio in Rome while the agitation can murder, the plots of the conspirate ambitious designs of Caesar's friend height; and though but a youth cunning and ambitious statesmen, the eyes of his rivals to his purpos ually, and with consummate tact, from them the prize of the empir by patronizing Cicero, he obtain senate the command of the army tony, who had seized the treasure the empire of Casar; and in cot the 2 consuls, Hirtius and Passahim and drove him across the Al The death of the consuls left at under his immediate command, as ing popularity excited suspicion at ing popularity excited suspicion s a rumor had been spread that I had wrought the fall of the cos caused them to be assessinated by among their own soldiers in the tory. At the head of his troo the consulship from the terrifle when Brutus and Cassius were strong for him in the East, are with the authority of the senat himself to Mark Antony, the gre day, and formed, with him and L triumvirate, deluging Rome The alliance was cemented by the Antony with Octavia, the sister of Each of the triumvirs was to have nies put to death, and upon the he proscribed was found the man for Antony American By Antony, Augustus soon Brutus and Cassius, in the d Philippi. After dividing the with that strangely eccentric mary, general, and madmain, proposered Antony by the pered Antony by the vorid was lost and won in t Thenceforth, although he Roman world as a

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and to reconstitute the old rehe was, in truth, degrading the ying the equivalent order, and deple by prodigal donation of rights. Frugal in his habits, modexpenses, mingling with the peo-d, he governed absolutely, and he ally, but it must be admitted that rell. He regulated the empire by ralized the powers of the state, rebulent armies of the republic to ncomparable discipline, repressed ill ranks, abated the haughtiness of , pacified the whole world, and so ipital, that it was commonly said of and Rome "brick, and left it maraing the secret motives of the contus, the most various opinions have ned, both in ancient and recent some have maintained that his I faithlessness were shown only in t he took to gain the supreme hat his subsequent government m honest intentions, others have o be in every period of his career alculating hypocrite, whose first better than his calm after thoughts, ned from passion, but always actprepense. He was 3 times mar-domestic life was disturbed and He was 3 times marurcellus, his sister's son, a youth hom he had destined to succeed m he sincerely esteemed, died hen he died himself, in the 45th ign, and the 76th of his age, he leave the empire to Tiberius,

third wife, Livia.

S II., Frederic, elector of Saxof Poland, second son of John elector of Saxony, born May 12, b. 1, 1733. To finish his educarsent him to travel, and he visitatries and courts of Europe, Rome 1. Thus he contracted the love and luxury, but likewise that of began the collection of pictures ets of art comprising the gallery hich, increased by his son, became st celebrated in Europe. After his father in 1691, and of his in 1694, he became sovereign of after the death of John Sobi-Poland, in 1696, he was elected as by the nobility of that country, to election he, however, previously ligion from Protestantism to Cathrestore to Poland some provinces 1, Augustus attacked Charles XII., alliance with Peter the Great, but iccessful struggle, protracted for ich both his kingdoms suffered as obliged to conclude a peace, idding of Charles XII., to resign Poland, which the victor gave to czynski. When Charles was delowe in 1709, Augustus renewed

his alliance with Peter the Great, broke the peace with Sweden, entered Poland with an army, expelled Leszczynski, and recovered the crown. His reign was one of great luxury and splendor, his court a scene of uninterrupted feativity, with numerous artists adventures. festivity, with numerous artists, adventurers, alchemists, and beautiful women, one of whom, the celebrated Countess Königsmark, was by Augustus the mother of that Maurice, marshal of Saxony, so celebrated at the court of Versailles and in the history of France. By his gorgeous mode of life, Augustus exhausted his Saxon subjects, but attracted and attached to his person the nobility of Poland. The rich magnates imitated the example of the sovereign, erecting splendid palaces in Warsaw and on their estates. Augustus died in Warsaw, at the age of 63. He was elegant, affable, and attrac-tive in his manners, brave on the battle-field, skilful in all bodily chivalrous exercises, of an extraordinary muscular force, for which he was surnamed Augustus the Strong, but without any corresponding excellence in his character.—Augustus III., son of the former, born in 1696, died Oct. 5, 1763, succeeded his father in both Saxony and Poland, in the first by the right of inhoritance in the second by election thereby here inheritance, in the second by election, though he was opposed by Stanislas Leszczynski, who was supported by Louis XV., his son-in-law, and a portion of the Polish nobles. Augustus continued the gorgeous reign of his father, his greatest receive being him butting and fortinities. tituded the gorgeous reign of his namer, his greatest passion being hunting and festivities. Having had, previously to his accession to the two thrones, travelled in Italy, and being favored and patronized by the pope, he obtained there many beautiful works of art for his gallery. there many beautiful works of art for his gallery in Dresden, among others the celebrated Madonna Sistina of Raphael, several Correggios, and many other works of the great masters. His reign over Poland was quiet, but in every respect demoralizing. Peace did not serve to develop mental activity and industry, but to foster and nourish mental and physical atrophy. It was said that Augustus the Saxon succeeded in making of the Poles finished revellers, to their own hearty satisfaction. Count Brühl, his favorite, ruled in the sovereign's name, and Auvorite, ruled in the sovereign's name, and Augustus being married to an Austrian princess, he and his premier had no other policy than subserviency to Austria, and he became entangled in the wars against Frederic II. of Prus-In 1742, he concluded an alliance, offensive sia. In 1742, he concluded an alliance, offensive and defensive, with Maria Theresa, and promised afterward to bring into the field 50,000 men. This army, united with the Austrians, was beaten at the battle of Hohenfriedberg in Silesia, when Frederic invaded Saxony and entered Dresden, while Augustus field to Poland, which was at peace with Frederic. In 1746, a treaty between the helicopener, and and of the was at peace with Frederic. In 1746, a treaty between the belligerents put an end to the struggle. Soon, however, the celebrated 7 years' war broke out, in which Augustus, as elector of Saxony, participated again on the side of Austria. At the beginning, his Saxon army was compelled to surrender to Frederic, and he himself fied to Warsaw, persisting in his

alliance with Austria, and resided there until the pacification by the treaty of Hubertsburg, when he returned to Dresden, where he died. AUGUSTUS FREDERIC, prince of Great Britain and Ireland, duke of Sussex, the 6th son of George III. of England, born Jan. 27, 1778, died April 21, 1843. He studied at Götting the pand subsequently travelled in Italy. While gen, and subsequently travelled in Italy. While at Rome, in 1798, he married Lady Augusta Murray, daughter of the Catholic earl of Dunmore, s there were some doubts as to the validity of this marriage, the wedding ceremony was repeated in London, Dec. 5, 1793. This marriage was annulled, however, by the prerogative court of Canterbury, as contrary to act 13, of George III., chap. 8, which declared that no descendant of George II. should marry with the content of the crown Ledy Augusta out the consent of the crown. Lady Augusta separated from the duke immediately after the publication of this sentence, having borne him a son and daughter, who took the name of D'Este. In 1801, the duke was made a peer, and received a parliamentary grant of £12,000 per annum, which was subsequently increased by the addition of £9,000. In the house of lords, the duke took the liberal side on most public questions, on the abolition of the slave trade, on the Catholic emancipation, and Jewish out the consent of the crown. Lady Augusta trade, on the Catholic emancipation, and Jewish emancipation, on the reform bill, and the free trade question. In 1810, he was elected grand master of the free masons; in 1816, president of the society for the encouragement of the useful in 1820 president of the president. arts; and in 1880, president of the royal society He was a munificent petron of literature and art, and possessed one of the finest libraries of England. His liberal opinions in politics, and the part which he took in favor of Queen Caroline, made him unpopular at court, but before the death of George IV., a reconciliation took place between them.

AUGUSTUS or Brunswick, the younger, born April 10, 1557, died at Wolfenbüttel, Sept. 17, 1666, celebrated for his learning, and chiefly for his proficiency in the game of chess. He was present at the coronation of James I. of England, and was a friend not only of Henry IV. of France, and of the other potentates of Europe, but one of the foremest acholars and sevents of his day. In 1634, he ascended the ducal throne of Brunswick-Welfenbuttel, and ducal throne of Brunswick-Wolfenbuttel, and distinguished himself during his rough by a remarkable solicitude for the promotion of education among his people, and by the foundation of a library at Wolfenbuttel, which contained in 1614, 80,000 vols. He published a variety of writings, under the non deplace of Gustavus Selenus. His most celebrated work, School eder Königspiel (chest or king's game) was published at Leipsie in 1616, and translated into English by T. H. Sarratt (London, 1817). Higguer of Berlin, and other modern authorities on er of Berlin, and other modern authorities on chess, generally represent this work as being nothing but a German translation of the established Spanish book on chess by Guy Lopez. But the fact is, that while many of the data are probably taken from Lopez, Augustus has made

the work his own by the mass of he and of historical information which he l into it, and which, to this d a prominent place in chess literature AUK, the name of certain sea-

· AUK

family alcada, including the sub fratercula, mergulus, and phalen auks (alca) are strictly occ n birds, a ly ever leave the water, except for punidification and breeding, though deavor to scramble away, with a second and awkward swiftness, when they breed in immense flocks in carennies of rocks, laying but one disputately large egg. The young are fed a crops of their parents aven size of their parents. ately large egg. The young are fed in crops of their parents, even after in move about freely, and shift for them. This genus contains but 2 species, the guand the razor bill. The former (else in Linn.) is remarkable for the imperiate Linn.) is remarkable for the impersus or ment of its wings, which are totally in flying. They are set very far back a body, and extremely small, indeed, as more than rudimental; but are used bird as oars, which, in conjunction if feet, it plies with such power and value. it has been known to escape from barge pulled in pursuit by vigoro It rarely leaves the arctic circle, and adjoining, nor is it often seen off so dwells in great numbers in the washes the Faroe islands, Iceland been asserted that it breeds at Ne In summer all the upper parts of plumage are of a deep sooty his changed, in winter, to white on the sides of the neck, and the throat.
June and July, and lays one le
egg, as big as a swan's, irregular
black marks, which have been
Chinese characters. It has a le bill with sharp cutting edges; as being situated at the extremity of stands or sits erect, propped up I stiff tail, after the manner of the which it not a little recemb species is the black-billed auk murre (alea tords L.). It belon ern latitudes, in the extreme I these birds swarm in multitude during the breeding season their flesh, and, by their do to the Esquimana, who pl chief, if not their whole dep mention is to be found of th Dr. Kane, to whom they be fatal voyage, as absolute a ne to the poor savages, of washamed to be the friend. ashamed to be the friend. I black auk has some analogy falconine birds, having a shar extremity, and a deuticulated p two-thirds of its length, whi use in securing its slippery p which its feet lead it but little a color is dusky above, and white

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inity well, but, like the species last de-id, uses its wings as cars, in diving, which a to perfect m. It has the same habit of the greet as the great auk; and, being very charlent on all the rocky coasts of Great that in, where it sits in long horizontal rows the steps or ledges of the crags, towering above the other, offering so peculiar an appearance that the fishers and fowlers compare any the steps of the crags, towering the crags of the crags of the crags, towering the crags of the crags of the crags, towering the crags of the cra be rocks to an apothecary's shop, the succestre ledges to the shelves, and the white breasts the razor bills, "in order ranged," to the the razor bills, "in order ranged," to the of white earthen gallipots.—The next discon, fratercula, like the two remaining, containing puffin, or coulterneb (fratercula archibits strong massive beak, the mandibles of this strong massive beak, the mandibles of the when separated, especially the upper amost exactly resemble the coulter of a the upper parts of this bird are y, his cheeks and belly white. He has a keollar round his neck; his legs and feet orange, and his broad, cutting-edged beak collar round his neck; his legs and feet orange, and his broad, cutting-edged beak blaish gray, next to the head, but scarlet to to its obtuse point. Although it extends the high arctic regions, it is in England only maner visitor, breeding in the low sandy and in rabbit burrows, of which they discuss their legitimate owners; or, where are no rabbits, burrowing themselves. rocky places, as Dover cliffs, Flamborough and, and the Bass rock, at all which places as a power cliffs, Flamborough and, and the Bass rock, at all which places are no rabbits, burrowing themselves. When they have reared they lave their single egg in the swices of the rocks. When they have reared seir young, they pass from England to the outhern coasts of France and Spain, where they winter. Their burrows are curiously extended, by means of their great bills, to the lepth of 2 or 3 feet, and often have 2 entrances are escape in case of surprise. The length of the puffin is about 12 inches.—The third division mergulus, has, likewise, but one representation of the puffic and the surprise. vision, mergulus, has, likewise, but one repre-sentative, the little auk, common rotche, or sea dove, mergulus melanoleucos, which is the smallest of the species, and a native of the very highest stitudes, congregating in large flocks in the arctic circle; Greenland and Spitzbergen and Melville island being their favorite stations. Their plumage is black and white; and, in win-ther, the front of the neck, which is black in temper, turns white. It lays but a single egg, of pale bluish green, on the most inaccessible ledges of the precipices which overhang the coesn. It is about 9 or 10 inches in length.— The last division, phaleris, again, contains but a single species, the perroquet auk, phaleris seittacula. This, also, is an extreme northern bird. It is about 11 inches in length. Its

bird. It is about 11 inches in length. Its head, neck, and upper parts, are black, blended into ash color on the forward parts of the neck; the breast and belly white; the legs are yellowish, the beak, in the adults, red. This bird wims and dives admirably, and is said to be of a singularly unsuspicious character, being easily captured by the most inartificial strata-

gem of the natives of those dreary regions. About midsummer it lays see large egg, nearly of the size of a hen's, with brown or dusky spots, on a whitish or yellowish ground. The singular disposition of providence in limiting the production of these birds to a single egg yearly, is truly wonderful, even as it is beneficent; for, when we regard the countless millions which swarm in the arctic solitudes, even under this restriction, it is easy to perceive what would be the result, even in those regions overflowing with animal abundance during the brief summer time, were these sea fowl as prolific even as the gull or terns, much less as domestic fowls.

AULAF, or ANLAF, ANALAPH, ANALAV, or ONLAF, a name borne by several Northum-

AULAF, or ANLAF, ANALAPH, ANALAV, or ONLAF, a name borne by several Northumbrian kings of Danish origin, about the second half of the 10th century. I. A Northumbrian petty king and a pagan, died 980, after the expulsion of Guthfrith and Aulaf, sons of Sihtric, king of Northumberland, by the English king Athelstan. Aulaf fled into Ireland, and we learn what we know of him from the Irish annals. He fought against the native tribes in that island. In 987 he endeavored to recover Northumbria, but was repulsed by Athelstan. He returned to Ireland, and repaid the hospitality of the Irish by ravaging Kilculen. After the death of Athelstan, Northumbria fell away from the English crown, and Aulaf recovered his inheritance after defeating Edmond at Tamworth and Leicester. Edred, the English king, and successor of Edmond, marched against him, made him do homage, and embrace Christianity. In 952 Aulaf was driven out by the Christian Northumbrians, and tired of struggling against the English, he went over to lead the Ostmen of Dublin against the Irish. He defeated Murdoch, king of Leinster, in 956, whom he put to death in 967. Two more Leinster princes suffered the same fate in 977. At this time he called himself king of Ireland and the Isles. In 980 Aulaf lost his son and heir, Reginald, or Regnell, in an engagement against the Hibernian aborigines, and in the same year, heart-broken, he went on a pious pilgrimage to Iona, where he died, after a stormy life. II. Son of Guthfrith, and uncle of the preceding lived in the latter half of the 10th century. He joined in the wars of his nephew against the Saxons in South Britain and the Celts of Erin. He ravaged Armagh in 932, and Kilcullen in 938. In 939 he was obliged to shut himself up in Dublin. He made an irruption into England with his nephew, conquered Edmond, the successor of Athelstan, in 943, and recovered Northumbria. He lived and died a pagan, and a hater of the Christian clergy.

Christian clergy.

AULIC, an adjective derived from the Latin word, aula. It was first applied to the higher civil officers of the Byzantine empire. In Germany it was applied to a council and councillors, established, in 1501, by the emperor Maximilian I. Originally this council

was to decide questions which properly came before the emperor, but its jurisdiction was soon extended to cases belonging to the supreme court of the empire. Successive emperors more and more facilitated and protected the council in its usurpations of power, which reached their culmination after the treaty of Westpha-At first the council was composed of president, a vice-president, and an indefinite number of councillors, divided into 2 classes, viz: the nobility, represented by counts and barons, and jurisconsults. All of them were named by the emperor alone. By the treaty of Westphalia 6 of the councillors were to be Protestants, and their united vote was to counterbalance that of the Catholic members, whatterbalance that of the Catholic memoers, whosever might be their number. The elector, prince bishop of Mentz, was intrusted by that treaty with the presidency of the council. It decided all litigation of a purely feudal character, relating to the imperial vassals in Germany and Italy, for which countries it had the power of feudal investiture of counts and harons of the holy Roman empire. The decibarons of the holy Roman empire. The deci-sions were beyond question, except by petition to the emperor, and when all the German states had a common complaint against the council, the appeal was brought before the diet. At the death of the emperor, the functions of the councillors ceased, and during the interregnum the court was vacated.—After the dissolution of the German empire in 1806, the newly created Austrian emperors preserved the name of the Austrian emperors preserved the name of the old aulic council for the supreme government of their empire. This new body, divided into departments, had the supreme, administrative, military, and sometimes judicial power. It directed distant military operations, and to its interference are attributed many of the disastrational by Austria in her wars against ters sustained by Austria in her wars against Napoleon. It was wholly abolished after the events of 1848.—The word aulic is also applied in some universities to the thesis discussed on the day of the creation of a new doctor of divinit

AULICH, Ludwig, a Hungarian general, born in 1792 at Presburg, distinguished himself in 1848 and 1849, especially by the active part he took in defeating Windischgratz's army in March and April, 1849. After the evacuation of Pesth by the imperial troops, Aulich de his triumphant entry into that capital, was received with enthusiasm by the ps. In I famous proclamation of Gödöllö, as also an appropriate home to Au along the famous proclamation of Gödöllö, as also an appropriate home to Au along the famous proclamation of Gödöllö, as also an appropriate home to Au along the famous proclamation of Gödöllö, as also an appropriate home to Au along the famous proclamation of Gödöllö, as also an appropriate home to Au along the famous proclamation of Görgey was forced to renounce either the army or the ministry of war, he took the latter alternative, and Aulich was appointed his successor. But Aulich was completely under the influence of Görgey, and although he might have used his authority as minister of war to frustrate Görgey's negotia-

tions with the Russians, he actually as Gorgey to bring these negotiations to a me ful close. Aulich was punished by the trians at Arad, on Oct. 6, 1849, when in pany with 12 others, he perished on the lows.

AULIS, in ancient geography, a town is district of Hellas, called Bosotia, in the state of Euripus, between Bosotia and Eubon; is a temple of Artemis. Here, according to the of Troy, Agamemnon assembled his fast paratory to crossing the Ægrean sea to I and here his daughter, Iphigenia, was dup as a sacrifice to Artemis. In the time Pausanias, the geographer, only a few perinhabited it. It still retains its ancient and AULNE, a river of France, in the different of Finisterre, rises near Lahase in

AULNE, a river of France, in the in ment of Finisterre, rises near Lahaes in Black mountains, and after a winding con 70 miles, in which it passes Châteanast Châteaulin, falls into Brest harbor. It is igable to Châteaulin, a distance of 14 miles forms part of the canal between Nature Brest.

AULON, JEAN D'. a French cavaler i service of Charles VII., and subsequently cillor of the king, master of requests, and sm of Beaucaire, became celebrated by his at tion with Joan of Are, whose faithfules ion in arms he was up to the moment imprisonment by the English. After her when a trial was instituted at Lyons view of rehabilitating her memory, Jean d was one of the principal witnesses, who to the spotless character of the herois w

to the spotless character of the herois wat AUMALE, a small place of France, department of Lower Seine, known for torical associations. In the beginning 16th century, Aumale was a county he to Claude I. of Lorraine, 5th son of Remon of Lorraine, who was afterward created of Guise by Francis I. of France, and the head of the illustrious family of the It was raised to the rank of a duchy by II., and held as such by Claude II., and Claude II., and brother of the celebrated cis of Guise. This duke of Aumale, witinguished himself during the war of the

against the empty of the wall of the part in the blot troubled the reign of the promoters are. His son Carlo. V., assisting him in the battles of any ope of the leaguage of the leaguage of the leaguage of the leaguage of the Original Particle of

ouse of Condé, made him his heir; so came into possession of the largest for-France. This, however, did not deter m leading an active life; he entered tary service at the age of 17, being apto a captainship in the 4th regiment of . As an aide-de-camp to his eldest the duke of Orleans, he took part in the expedition of Medeah, where he con-himself with bravery. He was consepromoted, served a second campaign in and left the country only on account alth. Returning to France, he was enaris, Sept. 13, 1841, at the head of the iment of the line, of which he had been decolonel, when a man of the name of the had been decolonel, when a man of the name of the had been decolonel. et discharged a gun at him, but happily us aim. At the age of 20, he was promoterank of brigadier general, and insisting again sent to Algeria, in Oct. 1842. d with the command of the district of he evinced great activity, skill, and in-r. On May 16, 1843, he attacked the f Abd el Kader with such impetuosity ess than 2 hours the emir's troops were routed; and the result of this brilliant was the capture of 8,600 prisoners, immumbers of cattle, and the treasures of f. As a reward, Aumale was made atgeneral and commander of the proventians. Constantine. In 1847, the young set 25 years old, was intrusted with the governorship of Algeria, which was rom the hands of Marshal Bugeaud. pointment was not approved either by y or the French nation; it was the oc-r loud complaints against the ambition ing, who was concentrating the directhe whole military service in the hands as; Nemours was already at the head rmy, while the prince de Joinville had rol of the navy, and the duke de Mont-that of the ordnance. Events, how-med to vindicate the promotion of Au-or, soon after, Abd el Kader notified wh of his willingness to surrender himtheir hands, and the young governor sedi-Brahim to receive his submission.

promised that the emir should be aloreside where he pleased, except in but this generous promise was not kept.

French government and Abd of Feder French government, and Abd el Kader ta prisoner to France. It must be said, e to Aumale, that he was not an act in this breach of faith, and Abd el imself never thought of holding him the fait. The resolution of Fobruary able for it. The revolution of February e young governor by surprise; but it to denied, even by his enemies, that in cult juncture he acted with noble and disinterestedness. Hearing of the abdication of his father, he exhorted the on to wait calmly for further develop-and on March 8, he resigned his au-in the following words: "Abiding by mal will, I retire; but in my exile, all

my wishes will tend to the prosperity and glory of France, which I would gladly have been able to serve longer." He embarked on the steamer Solon, and sailed for England, where he joined the other members of his family. He is now living in Sicily with his wife, Maria Caroline Augusta de Bourbon, princess of Naples and daughter of the duke of Palermo, whom he married in 1844, and by whom he has a son who bears the title of prince of Condé.

AUMONT, the name of one of the great historical families of France. The first Aumont

AUMONT, the name of one of the great historical families of France. The first Aumont mentioned in French history, is Jean III., Sine d'Aumont, who, in 1328, took part in the battle of Cassel, and served under Philip de Valois, on many other important occasions. One of the more distinguished members of the family was Jean d'Aumont, born 1522, died 1595. He was on the battle-field almost from his cradle to his grave. Heserved under 6 kings: Francis I., Henry II., Francis II., Charles IX., Henry III., and Henry IV.—Antoine d'Aumont, born 1601, died 1669, served with distinction under Louis XIV., and in 1662 was appointed governor of Paris.—Louis Marie Viotor d'Aumont and de Rochebaron, born 1632, died 1704, took an active part in the war in Flanders under Louis XIV., was governor of Boulogne and the Boulonnois, and member of the academy of inscriptions and belleslettres.—Jaques, duo d'Aumont, born 1732, died 1799, was the commandant of the national guard, on Oct. 5, 1789, when Louis XVI. was forcibly taken away from Versailles.—Louis Marie Céléste de Vienne, duo d'Aumont, born 1762, died 1831, was a wild youth, and served in Germany, Spain, and Sweden, until the restoration, when he was reinstated in his position, and appointed lieutenant-general. He made himself very useful to the cause of royalty in suppressing the troubles in Normandy, and in 1815 he was created peer of France, and raised to the office of first chamberlain. He was one of the most prominent men at the courts of Louis XVIII. and Charles X., but he exchanged politics for theatres, and became the chief director of the comic opera.

of the comic opera.

AUNGERVYLE, RICHARD, known in history as Richard de Bury, born A. D. 1281, near Bury St. Edmunds, died April 14, 1345. He was the son of Sir Richard de Aungerville, and was educated at Oxford. Even while pursuing his university studies he was remarkable for those characteristics which distinguished him in after life—for his learning, his wit, and the sanctity of his life. He was appointed tutor of the prince of Wales, who afterward took the crown as Edward III. Upon the accession of his pupil to the throne Aungervyle was remembered, and received successively the appointments of coiffeur to the king, treasurer of the wardrobe, and keeper of the privy seal. In 1333 he was consecrated bishop of Durham. In 1334 he succeeded Archbishop Stratford as lord high chancellor of England, which office, however, he resigned in 1335 for that of treasurer. He went several times abroad as ambassador, once to

Rome and thrice to Paris. During his whole life Aungervyle had possessed a strong love of books, and employed every means to collect together such as were most rare and costly. When bishop of Durham his library was so extensive that it was said to have been "greater than that of all the other bishops of the kingdom put together." The latter part of his life he gave up entirely to books. He died at his manor of Bishop's Aukland, and was buried with great rooms in his own esthedral

pomp in his own cathedral.

AUNIS, an old division in the west of France, between Saintonge, Poitou, and the Atlantic, forming with Saintonge the modern department

of Charente Inferieure.

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forming with Saintonge the modern department of Charente Inferieure.

AUPICK, a French general and diplomatist, born at Gravelines, Feb. 18, 1789, died at Paria, April 29, 1857. During the ascendency of the republicans after the revolution of Feb. 1848, he was sent as ambassador to Constantinople, in which position he remained till 1851, when he exchanged it for a similar mission to London. There he was succeeded after a few months by Count Walewaki, and was immediately after sent by Louis Napoleon as minister plenipotentiary to Madrid, where he remained till succeeded by the marquis of Turgot in 1853. He was thoroughly versed in military science.

AURELIA, the mother of Julius Cessar, died 54 B. C. When the patrician Claudius profaned the mysteries of the Bona Dea, which were celebrated by the Roman matrons in the house of Cessar, by entering the house disguised as a female musician, in order to meet Pompeia, Cessar's wife, his detection was owing entirely to the sagacious vigilance of Aurelia.

AURELIA ORESTILLA, a Roman woman, celebrated for her beauty, but not distinguished for virtue, lived about 50 B. C. Catiline fell

celebrated for her beauty, but not distinguished for virtue, lived about 50 B. C. Catiline fell in love with her, and was said to have made away with his first wife, and afterward with in order that he might marry her.

his son, in order that he might marry her.

AURELIAN. I. LUCIUS DOMITIUS, emperor of Rome, born at Sirmium in Illyria about A. D. 212, died in March, 275. He was a man of stern, hard integrity, and a great soldier. The son of a peasant, who acted as steward or bailiff to a rich senator, Aurelius, who owned the farm on which he was born, he emisted in the ranks of the legionaries as a private, and rose by successive steps to the grade of centurion, tribune, prefect of a legion, inspector of the camp, and duke of a frontier. In the cothic war he served as commander in chief of the cavalry. He always fought in the foot ranks. He always fought in the front ranks, with his own sword, and was invariably succe ful; his strictness as a disciplinarian, his conduct as a leader, and his valor a soldier, being all equal, and, in that age, incomparable. He is said by Theoclius, in his lives of the Cours, to have killed, with his own hand, 48 Sarmatana and in one appropriate and in one appropriate that it is the conduction of the course of the cours in one engagement, and in subsequent conflicts 950; so that his soldiers, in their triumples, were wont to celebrate his exploits in their reged ballads, the burthen of which was made.

mills, mills occidit. On the de mith of Ci the emperor Aurelian was at once invest the legionaries of the great army of the D with the imperial purple, and Quintil brother of the late emperor, who had a the diadem, judging himself incompetent tend with such a rival, withdrew from equal conflict, and, causing his vens to led, died a voluntary, if ignominion. The reign of Aurelian, who succeeded further opposition to the throne, laste years and 9 months; but every month cupied by some grand achievement. "He an end to the Gothic war, chastised the mans who invaded Italy, recovered Gast, and Britain out of the hands of Tetricus, as stroyed the proud monarchy which last had erected in the East, on the ruins of Roman legions from the frontiers of light which province he totally abandoned to Goths and Vandals; he restored the light frontier, and, on the Alemanni flying to six he defected them with prodictions also when he defeated them with prodigious slanghts, ultimately almost annihilating them as an reduced them to perfect submission. His against Zenobia, which was, perhaps, the great and most difficult of all his enterprise, as is ever the case in conflicts between we will be a submission. military prowess and the nations of the climate fought against the invasaided the clouds of oriental horse, and ery of the enemy,—was conducted, with was at barbarous cruelty; and the judicial murdes ginus, the critic and statesman, will even disgrace on the names of the queen who be and the emperor who condemned, him. Of turn from the conclusion of this brilliants ment, which seemed to have secured the the world and prostrated the last e after his triumph, which was the most all the 300 which decorated the annu republican, and imperial Rome, a strang accountable rebellion broke out within walls of Rome. It was an actual of while it lasted; for before it a pitched battle was fought on the Co

a pitched battle was fought on the Cain the very centre of the city, in which dition was indeed suppressed, but not 000 veteran soldiers of the Danubi who were present only for the consist triumph of the emperor, were alain in test. After his victory Aurelian gaverage and to the natural steraness of his which had been hardened by long fewith scenes of blood, cruelty, and torthe vengeance which he took for the un rebellion was barbarous, unsparing, and tie to the last degree. "The excessing a contemporaneous poot, "were ang a contemporaneous poet, " we sang a contemporaneous poet, " we the prisons were crowded, the meas the death or absence of its most illa bers." But the vengeance and er relian were fatal to himself; a cos-formed against him, and, on his i

Heraclea, he was attacked by the distely about his own person, and resistance, was slain by the hand a general whom he had always usted. "He died," says Gibbon, y the army, detested by the senate, iy acknowledged as a warlike and ace, the useful, though severe, regenerate state." The observation most sagacious of his successors, ppears most to the point: "was better suited to the comrmy than to the government of an peasant, and a legionary soldier of ny, all his sympathies were with and the legionaries, and against e nobles, and the prætorian guard. e rustic into the senate-house and cooper into the general's tribune.

were harsh rather than rigid; his
nel rather than severe. His intenobably good, but his natural tem-re; and condition and habit, which second nature, adapted him rather gainst a barbarous foe than for the ilized empire. II. CELIUS, a na, in Numidia, a medical writer of 12, understanding, and accuracy. lays of the emperor Valentinian, he writer of the medical sect called hose works are extant. His achorrible complaint hydrophobia is aluable, coinciding in almost every cause, diagnosis, effect, and treat-te most approved modern theories except that he does not advise ex-use of the actual cautery. S, Marcus. See Antoninus.

or DENARIUS AUREUS, the first ruck in Rome, 207 B. C., from then from the Carthaginians, 62 he introduction of silver. It was aris or 100 scaterics. In later times in value, and was called solidus. ent values at different periods of mpire.

AR CONFESSION. See Con-

ER (the Latinized name of Gold-Goldschmidt), JOHANN, born at 19, studied at Wittenberg, became muensis, and was present at his e Smalcaldic war he was chaplain giment; in 1551, court chaplain of rederick of Saxony. After 1562, the unpublished manuscripts of was one of the collaborators of the off Luther's works. He edited the teri and the "Table Talk." In 1566 stor at Erfurt, and died 1579.

I. In Roman antiquity, the chariablic games. Originally, only slaves, aliens, were aurigæ; but later, the ns of the best families condescend-that position. II. In astronomy,

the Wagoner, a constellation of the northern hemisphere. In Bode's catalogue, it contains 261 stars.

AURILLAC, a town of France, capital of the department of Cantal, in a valley on the Jourdanne. It is walled and well built, with wide streets, kept clean by the overflowing of a large reservoir, into which two fountains discharge. Along the bank of the river is the public walk (Le Gravier), at one extremity of which there is a splendid bridge spanning the river. The old buildings of Aurillac include the castle of St. Stephen, the church of St. Giraud, the church of Notre Dame of the 13th century, and the college which contains a valuable library, and a cabinet of mineralogy. The manufactures are copper utensils, jewelry, woollen stuffs, blondes, laces, and paper. Pop. about 11,000. AURIOL, Pierre D' (in Latin, Auriolus), a French theologian, and native of Toulouse,

a French theologian, and native of Toulouse, lived at the commencement of the 14th century. He was named the eloquent doctor, doctor fecundus. He was the pupil and successor of Duns Scotus in one of the chairs of the university of Paris. D'Auriol was a warm defender of the doctrine of the immaculate conception of the Virgin Mary, and wrote a tract thereupon.—Blaise D', a French poet and lawyer, a native of Castelnaudary, died at Toulouse, July, 1540. He taught canon law at the university of Toulouse, and harangued Francis I. on his passage through that city, which gained him the honor of knighthood. Some astrologers having prophesied a universal deluge for the year 1524, D'Auriol was credulous enough to believe them, and built an ark wherewith to save himself.

enough to believe them, and built an ark wherewith to save himself.

AURIVILLIUS, KARL, a Swedish orientalist, born at Stockholm, in 1717, died in 1786. He mastered the Syriac, Arabic, Sanscrit, and other oriental languages, by long-continued studies at Jena, Rome, Paris, Leyden, and Upsal. He resided at Upsal after the year 1754, at first giving private instruction in the poetry of different nations; but in 1772, obtained what had long been the goal of his ambition, the professorship of oriental languages in the university of Upsal. He succeeded Linneus as professor of the academy of sciences in that town, and was a member of the commission for preparing a new translation of the Bible into Swedish.

AURORA (in Greek, Eos), the goddess of the morning, was the wife of Astræus, and the mother of the winds. She carried off Orion to the island of Ortygia, and detained him there till he was slain by Diana. She bore away Cephalus, and had by him a son named Phaëthon. She took to her embraces Tithonus, son of Laomedon, king of Troy, and gave birth in consequence to Memnon and Æmathion. Aurora is represented in various ways. Sometimes she appears in a saffron-colored robe, with a wand or torch in her right hand, emerging from a golden palace, and ascending a chariot of gold. Sometimes she appears in a

flowing veil, which she is in the act of throwing back, opening with her roseate fingers the gates of morning. And sometimes we see her as a nymph, weaving a garland and standing in a chariot drawn by winged horses, with a torch in one hand and flowers in the other, which she scatters as she goes.

which she scatters as she goes.
AURORA BOREALIS, also called NORTH-ERN LIGHTS, STREAMERS, luminous appearances, occasionally seen in the sky of the temperate latitudes during the absence of the sun, and tattudes during the absence of the sun, and more frequently and in greater brilliancy, in the polar regions. Instead of northern lights they should therefore be called polar lights. They appear in the northern hemisphere at irregular intervals, generally soon after sunset, and often like a twilight continued into the night, but changed in position more to the north; and again they appear in the form of a cloud, which is sometimes dark with its upper edge fringed sometimes dark with its upper edge fringed ith a flickering light. This extends along the is sometimes dark with its upper edge fringed with a flickering light. This extends along the northern horizon, parallel, it may be, with it, or arched like a rainbow. Its appearance is often like a bank of fog. As the night advances the light becomes brighter. From the edge of the cloud pencils of light, in diverging rays, begin to be sent upward, or to issue in groups from portions of the arch in lines that ground meet at its centre. The northern sky straingly becomes overnment with streamors of gradually becomes overspread with streamers of light, the motions of which become more and more perceptible, as they shoot upward or appear here and there in unexpected places. Bodies of light, from which radiate flickering beams, appear and disappear in different parts of the heavens. The whole sky is alive with an unsteady motion, or undulates rapidly with a motion like that of grass waving in the wind. So swift is the movement, that it passes from the horizon half way to the zenith in half a second of time. In a still summer night upon one of our great northern lakes, and more especially upon Lake Superior, these phenomena may be observed in great perfection. Floating in a small boat remote from the shore one seems dually becomes overspread with streamers of in a small boat remote from the shore one to be enveloped in the meteor as in a fog. Nothflickering, appearing here and the filling the whole a here, and k, it all in tremulous moves. tremulous mov One's ideas of sp. rection, are as dense clouds in a through the night, dawn of day. rora are too varied for a clear idea of them. The The up. various colors, as different green, gray, and red. When mey zonith and form there a corona. seen of green, blue, and purple color tinge has been known to overspread: tion of the sky, giving to it the cand when the ground was (

imparting to this, too, the pearances in ancient tiu

great horror; indeed, in our evants of last, at the streamers of last, at the ignorant. The streamers of light verted by the imagination into the firm miliar objects in motion. The inhabit the north of Scotland call them many. The ancient Greeks and Romans represents any in their varying forms.

Pierce, flery warriers fight upon the cleak, In ranks, and squadrons, and right form of a They even imagined that sounds of a and arms came from them. Nor is ! only authority for the statement th emitted by the aurora. So many at he have described a noise of rumbling murnuring, and crackling, as comis meteor, that it is not altogether imposunds may be at times cent forth free these have not been heard by the guished arctic travellers who have to the subject. Dr. Richardson, whe sular attention to the aurora in the expedition of Captain Franklin, h but admits that the united testimo ferent native tribes, and of the old at the European ports, induced him a that its motions are sometimes smill derson remarks that in Iceland, when uscations are particularly quick and crackling noise is heard, like that of emitted from an electrical machi-and Gmelin, Nairne and Cavalle, the sound proceeding from the s must, however, be still considered mined question.—The times of app the aurora, as far as they are recon-to have been very irregular. I accounts are those of Aristotle, wh scribes the peculiar phenomena re mingled with smoke seen on calm burning stubble seen afar off, purple, bright red, and blood-on many of the ancient classics and ence is made to it, and in the ch middle ages it is frequently recog perstitious descriptions of the gl of the fighting aërial hosts. In 18 to authentic descriptions, it was a of the fighting aerial hosts. In I to authentic descriptions, it was a in the form of burning spears. I seen by Stow on Nov. 14. He a nals, "that strange impressions of were seen in the air to pressee black cloud in the north toward. the next night the heavens I seem to burn marvellous ragi heads the flames from the he rising did meet, and there do in another, as if it had been i The next year (1575), it was land, and the following descri appearance is given by Cornell rsity of Los

many bright arches, out of which ued spears, cities with towers, and a array; after that there were exays every way, waves of clouds and tally pursued and fled, and wheela surprising manner." In 1754 a ublished by M. de Mairan, entitled in the property of the property o ique et historique de l'aurore bo-ich are collected the various recordons of the phenomenon from the year From this it is seen that in the latter 7th century its appearance suddenin an extraordinary degree, and so ry frequent to the year 1745, when liminished for the next 9 years. On owever, it is probable that no pe-ished more brilliant displays of the the last 100 years, and the most in-tion of this period in this country ars 1835, 1836, and 1837. In north-Iceland, Sweden, and Norway, it is mon occurrence, and as seen and Mr. Bayard Taylor in the winter of wonderful beauty; and yet it is or to the year 1716 it was considrarity by the inhabitants of Upsal; the historian of Denmark, and an riting in 1706, speaks of his recolstime when the meteor was an obtain his native island. In the eastr in his native island. In the east-Asia, on the contrary, it is said to less frequent and less brilliant in . In the summer months, accordatise of M. de Mairan, it is comparaoccurrence, and the greatest num-led observations are in the months farch, and September. Prof. Olmr Haven, who has, in several of the he "American Journal of Science," th vol. of the contributions of the institution, furnished many imporpon this subject, distinguishes the apthe aurora as occurring in secular itervals of 60 to 65 years, and conmore than 20 years. For the the displays increase in intensity, d decline, to the termination of the h a period he regards as having on Aug. 27, 1827. But there have en many fine displays of the phe-recent years beyond the limit he to each period. The preceding from 1760 to 1781.—Of the apthe southern hemisphere there are rded observations. It was discov-Foster, who made the voyage world with Capt. Cook, and who in Feb. 1773, in lat. 58° S. He ther later observers agreed in its ere of a whitish color, and without ints which distinguish it in north. This has since been described in works as distinguishing the aurora a the northern lights; but Commo-of the U.S. exploring expedition,

nfused and various, for in it were

makes frequent mention of as beautiful colored displays of the aurora in the antarctic regions as have been witnessed in the arctic. At midnight of Feb. 9, 1840, in lat. 65° 8′ S. and long. 125° 19′ E., was "a splendid display of the aurora australis, extending all around the northern horizon from W. by N. to E. N. E. Before its appearance a few clouds only were seen in the S. E., on which the setting sun cast a red tint that barely rendered them visible. The horizon, this exception, appeared clear and well d. The spurs or brushes of light frequentdefined. ly reached the zenith, converging to a point near it. Although no clouds could be seen in the direction of the aurora before or after its appearance, yet when it was first seen there appeared clouds of the form of massive cumuli, tinged with pale yellow, and behind them arose brilliant red, purple, orange, and yellow tints, streaming upward in innumerable radiations, with all the shades that a combination of these with all the shades that a combination of these colors could effect. In its most brilliant state it lasted about 20 minutes. On March 17, in lat. 64° S. and long. 97° 37′ E., the magnetic variation the day previous 56° 21′ westerly, between 11 and 12 at night, was another exhibition of the same character. "It exceeded any tion of the same character. "It exceeded any thing of the kind I had before witnessed; its activity was inconceivable, darting from the zenith to the horizon, in all directions, in the most brilliant coruscations; rays, proceeding as if from a point in the zenith, flashed in brilliant pencillings of light like sparks of electric fluid in vacuo, and reappeared again to vanish; formin vacuo, and reappeared again to vanish; forming themselves into one body, like an umbrella or fan shut up; again emerging to flit across the sky with the rapidity of light, they showed all the prismatic colors at once, or in quick succession. So remarkable were the phenomena that even our sailors were constantly exclaiming in admiration of its brilliancy. The best position in which to view it was by lying flat upon the deck and looking up. The electrometer was tried, but no effect perceived. The star was tried, but no effect perceived. The star Canopus was in the zenith at the time, and, though visible through the aurora, was much diminished in brightness."—Various estimates have been made of the height of the aurora above the surface. It has been supposed from its not changing its position with the rotation of the earth that it belongs to the atmosphere, and is carried along with it. But from the great sur-face of country over which it has been visible at the same time, with the same general appear ances, Dr. Halley and others have been disposed When the to ascribe to it a prodigious height. to ascribe to it a prodigious height. When the aurora assumes a distinct form, like that of a corona, or of an arch, as it sometimes does, and this is visible at different points upon the surface, its height can be calculated from observations carefully made at these places. Such an arch was observed on March 29, 1826, in a line archives the surface archives the surface of the surface archives a surface archi an arch was observed on march 20, 2020, and line crossing the magnetic meridian at right angles; and from its position in relation to White-haven and Warrington, 2 places in England, 83 miles distant from each other on this meridian

its height was calculated by Mr. Dalton of Manits height was calculated by Mr. Daiton of Manchester, to be nearly 100 miles above the surface. Similar observations have been made in this country by Prof. Olmstead, Prof. Alexander C. Twining, and others, in 1835 and 1836. In August of the latter year the two gentlemen named, being at points 22 miles apart, observed peculiar forms of the aurora, which they regard as the same objects seen by both. The height, calculated by the angles of elevation, was 1441 miles. The observations of Prof. Twining, calculated by the angies of elevation, was 1213 miles. The observations of Prof. Twining, made with others in Dec. 1885, indicate the height to have been certainly not less, and probably much more, than 421 miles, and in May, 1886, to have exceeded 100 miles, and probably declared to the nearly obtained at the to have amounted to the result obtained at the same time by Prof. Olmstead, of 160 miles. The conclusion at which Prof. Olmstead arrives is that the auroral arches seldom, if ever, fall below an elevation of 70 miles, and do not often ed 160 miles. The arctic travellers, Dr. Richardson, Captains Franklin and Parry, and Lieut. Hood, regarded the position of the aurora as low in the atmosphere—below the hazy form of cloud which produces a fog-bank in the horizon. Dr. Richardson also frequently observed the lower surface of the clouds illuminated by the polar lights, which could not be if these lights were at such an extremely high elevation as many have supposed. Capt. Franklin, too, noticed the passage of a brilliant mass of light, variegated with the prismatic colors, between the earth and a cloud, concealing the latter until the coruscation had passed by. Ross and Parry and others also saw a bright ray of the authors about downward from a northern light they rora shoot downward from a northern light they were admiring, till it intercepted the view of the land, which was less than 2 miles distant. This is an interesting feature connected with the aurora, and ought to receive the particular atten-tion of any, who are fortunate in being observers of its most remarkable displays. The direction and apparent height of the object may ea The direcly be noted and recorded, the former as take by the compass, or better, by its position in relation to particular stars, which will also particular stars, which will also he height. An isolated observadetermine the height. An isolated observa-tion of this kind will have no value; but, in connection with those made by other persons, in other places, may prove of great interest. When the surora appears in the form of an arch, the position of its boundaries ought also to be noticed, as they appear among the stars. The position of the arches at right angles to the magnetic meridian, crossing it as parallels of latitude round the magnetic axis, is a subject of especial interest, on which more data are very desirable. The line of this axis in any region is the north and south line indicated by the mag netic needle. Every marked change in the ap pearance should be noted, with the exact tim of its occurrence, and as many particulars in re-lation to the clouds as may be. The British as-sociation has called the attention of observers to the recording of these phenomena, and pub-lahed recommendations as to the points partic-

ularly important to be notice reports.—It is observed that the mais affected by the polar lights und cumstances; it is violently aginal later and is defected to the cast of cumstances; it is violently lates, and is deflected to the when the beams or fringes of is same plane as the dip of the nec over is directed toward that point rays from the horizon con connects the phenomenon directly wi taking place in the atmosphere. We northern lights continue brilliant the si to be highly charged with electricity, periment with the electrical machine moreover, a singular resemble nomena developed to those we win mosphere as to density favorable fo opment of the Surora. A glass tub rmetically scaled, and partially air, laid along the conductor of an machine, becomes illuminated from a and continues so for a consideral s removed from the conductor. this, it is drawn through the hand comes intense throughout its le continue for some time to flash fro vals, if the tube be held steadily by ity. If grasped by the other light will dart from one end end to so continue for a considerable the experiment will not succeed except of the proper degree of density. eming to connect the at electrical excitement in th this requiring a density greate upper strata for such exciten the estimated heights of the have been regarded by many incredulity. Prof. Olmsteed has removed the objection by phenomenon an interstellar or phenomenon an mucroscher pl though the exhibitions take pl regions of the atmosphere. ter, like that which furnis the meteoric showers, or the s

probably the cause of the auroral diperiodical returns of the phenamer such a position; so, too, its rapid me exceeds that of light or electricity; the extent of surface, covering many longitude, over which the phenomes at the same time. The light he recuted by the friction of the earth posits atmosphere, through this vaper, to being sufficient, notwithstanding the the materials, to develop this luminathe magnetic phenomena he explain metallic, probably ferruginess, a serwhich the stones of iron precipitate earth in the form of serolites lend to bility; as also the fact that by the in generated by the hydro-expgen blo-



s suggested by Mairan in his work, before ed to, that the zodiscal light might afford n the material of the aurora and of meteorwers. It has been observed by operators of ain or chemical telegraph, that very sineffects are produced by the aurora upon elegraph wires. The atmospheric elecrenerated during thunderstorms passes the wire to the chemically prepared emitting a bright spark, and a sound he snapping of a pistol. It never re-long upon the wires, though it travels imes 40 or 50 miles before discharging But the electricity produced by the passes along the wires in a continuous a with no sudden discharge—effecting
ame result as that by the galvanic batA colored mark upon the paper is made
a positive current of the aurora as by the m pole of the battery; the negative curm the contrary produces a bleaching effecting the appearance of the aurora, which blue lines appear on the paper, which ally become stronger and darker so as to through several thicknesses of it. The then disappears, and is soon followed by aching process, which entirely overcomes ificial current of the batteries. When effects have been observed, the aurora , and presents some of its most beautiful 78 along the lines of these telegraphs; and fliar have the operators become with the bances which the aurora causes, that they edict its appearance with much certainty. regard the electricity generated by it as aly that of the electro-galvanic battery, is distinguished by its voluminous current at intensity of action, differing from atmos-electricity, or the kind developed by fric-rhich may be dissipated by placing wire stors leading to the ground in close prox-to the line of wires.—It has already been d, that one of the most interesting periods display of the aurora was during the years
1636, and 1837. The most brilliant exhiin this period were on Nov. 17, 1835,
22, 1836, Jan. 25, and Nov. 14, 1837. Prof.
and observes of the first, that "it was disshed for exhibiting on a grand scale nearly varieties of the aurora ever observed in mate, including the bank of auroral vapor in rth—the streamers—the arches—the corormed around the magnetic pole of the needle—and the undulations or merry s; while the whole were set off by that ar display of crimson light, which usual-ends the most remarkable displays of urura. The second, that of April 22, istinguished above all others which I They ssed for the auroral waves. to be observed before the end of twi-and continued nearly all night, follow-ach other with astonishing celerity. . . arors of Jan. 25, was the most mag-t of all. (This was published previ-

is volatilized into vapor of extreme rarity.

ously to the occurrence of that of Nov. 14, 1897.) It resembled that of Nov. 17, 1835, in many particulars, but its colors were brighter and more diversified, and its columns arranged with more symmetry around the magnetic pole, accurately a canopy of unrivalled grandeur." supporting a canopy of unrivalled grandeur."
On Feb. 18, of the same year, the northern lights appeared in great beauty at London, Belfast, Paris, Göttingen, and other places in Europe, and the same evening were noticed also from New Haven, illuminating a portion of the heavens toward the N. N. E. with a beautiful rose red light. In Europe, as at New Haven, the magnetic needle was observed to be sensibly deflected and agitated during the continuance of the phenemenon. On the morning of Nov.

13, occurred one of the periodic returns of the meteoric showers, such as had been annually witnessed for the 6 preceding years. The next day a fall of snow at the north covered the covered the covered by the covered the covered that the surface of the country, as observed by the same writer, quoted above, with a mantle of the purest white. In the evening "about six o'clock, while the sky was yet thick with the falling snow, all things suddenly appeared as if dyed in blood. The entire atmosphere, the surface of the earth, the trees, the tops of the houses, and in short the whole face of nature, houses, and in short the whole face of nature, were tinged with the same scarlet hue. The alarm of fire was given, and our vigilant firemen were seen parading the streets in their ghostly uniform, which assuming the general tint, seemed in excellent keeping with the phenomenon." Such was the appearance exhibited over a large portion of the country where the clouds were not so dense as to obscure the auroral display. The false alarm of fire was not confined to New Haven, and superstitious fears of some impending awful conflagration generally prevailed among the ignorant throughout the country. It is remarkable of this grand exhibition that it was observed over the whole eastern portion of the United States as far south as Culloden, in Georgia, in lat. 32° 45′ N., and also in Ohio and at St. Louis, Mo. At the north, as observed particularly in New York, the exhibition ceased after having been seen for an hour, again appeared at half past seven and lasted for more than half an hour, and returned a little before 9 in innumerable bright arches, shooting up from the northern horizon, of the most brilliant scarlet above, and below intense-They soon appeared also at the ly white. south, and extending upward to the zenith the whole firmament above presented the appear-ance of a canopy of moving brilliantly colored light resting around the horizon upon an ob-scure bank—all the more dark and mysterious for the vivid display above. At half-past 10 all this had disappeared; but at half-past 1 there was another return of the phenomena, lasting for more than an hour. At Staten island, in New York harbor, the spectacle is described as the most magnificent ever beheld. The illumination was so great, that objects outside of Sandy Hook were seen as clearly as at

midday, and the city of New York appeared to be only a mile or two distant. The influence of the aurora upon the magnetic needle was obrved to be quite irregular as to the direction of the inflection. The needle was violently agitated, often moving 80 minutes in 8 seconds of time, and ranging in its vibrations over nearly 6 degrees.—Most interesting details of this menon may be found in the observations recorded by several scientific writers in the "American Journal of Science;" the 5th vol. of the Contributions of the Smithsonian of the Contributions of the Smithsonian institution; in Halley's papers in the "Philosophical Transactions," 1716 and 1719; the treatise of M. de Mairan, already referred to; Cavallo's papers in the "Philosophical Transactions," 1781; and papers of several other distinguished men in 1790; Dalton's "Meteorological Observations," 1793; the papers of the Rev. James Farguharson in the same, 1880. In the 10th Ann. Rep. of the Smiths'n inst'n are full directions for observing the aurora. Maps of the heavens are furnished by the inst'n for the use of observers, to be filled and returned by them.

use of observers, to be filled and returned by them.
AURUNGABAD, a city and ancient province
of Hindostan, part of the division known as the The city is about 200 miles E. N. E. nbay. Pop. about 60,000. It was an from Bombay. Pop. about 60,000. It was an unimportant village until the time of Aurungzebe, who, liking the situation, made it a favor-ite residence. It is situated on the banks of the Kowlah, a mountain stream. the Kowlah, a mountain stream. Owing to the visinity of rice-grounds the place is not healthy, the inhabitants being subject to intermittents. The town itself is well laid out, but the buildings are in a sally dilapidated condition. There is a mausoleum erected by order of Aurungzebe, to the memory of his daughter, after the design of the Taje Mahal, at Agra. The town is supplied with water by means of conduits and displied with water by means of conduits and distributing pipes to various points in the city, and a considerable trade is carried on.—The province contains about 50,000 square mile province contains about 50,000 square miles, and was incorporated with the Mogul empire in 1683. In more recent periods it belonged partly to the Mahrattas and partly to the Nizam; at present the greater part is British. The soil is fertile, and the temperature is liable to very sudden changes. The Godavery one of the most sacred rivers of Ludia, takes its rise in the hill district of this previous from which also proceed various other rivers of less importance. The celebrated caverss of Flora are simulated in this province.

this province.

AURUNGZEBE, the last great emperor of the Mogul dynasty in India, born Oct. 22, 1618. died at Ahmednuggur, Feb. 21, 1707, in the 49th year of his reign. He was appointed by his father, the cruel and unfortunate Shah Jehan, to be viceroy of the Deccan, and in this pro-vincial office he concealed his early formed and warmly cherished purpose, to mount the im perial throne. Here he exercised himself in the command of armic, affected an entire in-difference for worldly things, in his real for the anstere practices of the Museulman religion, and

prepared for the triumph of his amassing great wealth. In 1687, was taken suddenly ill, and Dara parent, and eldest brother of As sumed the administration. Asr saw his way to the throne, year, he took post younger brother is er in defeatir ng D younger broken in descenting to succeeded by his energy and treat ting to death all of his brothers as His father, having meantime reconfined for the rest of his life a pr own palace, and Aurungzebe gra perial power without a rival, in th terror and astonishment occasioned by a cities. His reign was the most brilling cities. of the domination of the race of Al and his empire included ne الله واحد sula of Hindostan, with Cabool on th Assam on the east. The 10 first y administration were marked by eace, and his wisdom was esp peace, and his wiscom was expected in the measures which he took in and assuaging a famine, and in su insurrection of Hindoo devotess saint. A greater misfortus to of the Mahratta empire, ti female saint. of which had been almost in an heroic adventurer named Si this leader Aurungzebe sent in a experienced generals, and he there into the Deccan himself to awar. He resided in the Decca playing his power by the marches and encampments, natic, swaying an empire which population was probably unsurp population was probably unselver held by any other mone death, foresceing domestic was sons, and the probable downs dominion. The proper name was Mohammed, and that by monly known, meaning the "throne," was given him by He himself assumed and prefit "conqueror of the world," as tomed to have carried before gold as his symbol. Yet to yet held but three-fourths of th to tear off a corner from every which he used in his correspone talents were exhibited in eve ernment, and India owes to finest bridges, hospitals, an personal habits, he was rem tic simplicity; and in his a medan faith, he became a

Braminical Hindees, bittered by the memory he had deliberately perp imperial power, and unparalleled grandeur enjoyed were to lead only empire founded by the g

AURY, Luis bz, a mida, distinguished by h

where he commanded the naval r Granada. On Sept. 1, 1816, he José Manuel Herrera to Texas, as the united fleets of the republics enezuela, La Plata, and New Grant. 12 a government was organized, try solemnly annexed to Mexico. It is a government was organized, try solemnly annexed to Mexico. It is a government was organized, try solemnly annexed to Mexico. It is a government was organized, try solemnly annexed to Mexico. It is a government was appointed by Herrera itary governor of Texas and Gal, and held this office until 1817, quished it on account of the instantial to a second of the instantial to a second of the instantial to the instantial to a second of the instantial to the instantial this authority. This expediducted by Aury, in conjunction try and Gen. Mina. The town the Aury, after landing his force, Texas, his want of harmony with mmanders preventing his further in the enterprise. In July, 1817, resigning his office of governor, assisting Sir Gregor M'Gregor in against Florida, and subsequently much zeal in the cause of the South American republics. He dy of New Orleans, where he revena. (See Yoakum's "History sw York, 1856.)

wana. (See Yoakum's "History w York, 1856.)
'ATION (Lat. ausculto, to listen), medical art by which the states of internal organs are discerned ounds which they produce. Pulsations, and the vibratory movebody, produce sounds which are a distance, but which may be disby placing the ear close to the whest, and other parts of the ex-

The heart beats strongly many inute, and each pulsation gives a surrounding parts, and to the the vessels, which shock creates that sound is audible at a short t every breath the air is drawn to the lungs, and rushes out again ower and velocity when expelled air passages by respiration. The e air into the lungs produces one i peculiar to the act of respiration, ng out again, another sound pecustion.—In a state of healthy acids of the heart and those of the passages, are of a peculiar nature, actice enables the ear to become each special sound. In a diseased tion of both heart and lungs is some extent, and the sounds promodified in a peculiar manner. scultation consists mainly in dishe healthy or unhealthy state of from the sounds produced by inhealthy action. A little pracce is sufficient to render a good

ear familiar with all these various sounds, and the peculiar states and modes of action which produce them; but a dull or inexperienced ear requires some aid to distinguish one sound from another; and even a well-practised ear may sometimes need convenient aid, to make a proper diagnosis. Such artificial aid was first invented by a French physician, Laennec. "In 1816," says Laennec, in his work on "Mediate Auscultation and Diseases of the Heart and Auscultation and Diseases of the Heart and Lungs," "I was consulted by a young woman affected with the general symptoms of disease of the heart. In her case, percussion of the walls of the chest and application of the hand, were of no avail, because she was exceedingly fat. The immediate application of the ear being objectionable, I happened to recollect the great distinctness with which we hear the scratch of a pin at one end of a piece of wood, by applying our ear at the other end. This well-known fact in acoustics led me to think it might be turned to account on the present ocmight be turned to account on the present occasion. I rolled a quire of paper into a kind of cylinder, applied one end of it to the patient's chest, and the other to my ear, and was surprised and pleased to find that I could perceive the sounds and vibrations of the heart's action more distinctly than I had ever been able to hear them by the immediate application of the ear. From this moment I imagined of the ear. From this moment I imagined that means might be found to ascertain the character, not only of the action of the heart, but of every species of sound produced by the motion of all the organs within the chest."—
In seeking to improve the rude instruments employed in his first experiments, Leannes at least the constructed that which is a present and the second s length constructed that which is now in general length constructed that which is now in general use, called the stethoscope (from $\sigma \tau \eta 3 \sigma s$, chest or breast, and $\sigma \kappa \sigma \pi \epsilon \omega$, to examine or explore), by the aid of which he was impressed with the belief that all the sounds of the heart and lungs being more distinctly heard, the differences between healthy and diseased action might be readily discerned, and a new light thrown on the art of diagnosis. The art of ensultration has since then made remiderators auscultation has since then made rapid progress. The physician, familiar with the sounds which are natural to the healthy action of the heart and lungs, observes a difference in certain cases of disease. The difference is peculiar, and very marked in certain cases of severe disease. Where the patient dies, the organs are examined after death, and the peculiar morbid state which caused the difference of action and of sound during life, is connected in the mind with the peculiar sounds produced by that diswith the peculiar sounds produced by that diseased state; and hence by careful observation of unnatural sounds during life, and inspection of diseased organs after death, the sounds which correspond to healthy and diseased modes of action are well known; and to those who are familiar with the art of auscultation, the state of an organ may be known from the sound which it produces, as well as if it could be seen through a transparent medium.—Auscultation is very useful in obstatrics, as well as cultation is very useful in obstetrics, as well as

in diseases of the heart and lungs. In diffi-cult cases of parturition, it is often necessary to know whether the child be dead or alive in After womb, before delivery. the 5th month of pregnancy, the pulsations of the fetal heart may be distinctly heard, and the "pla-cental murmur," caused by the uterine circulation of the blood, may also be distinguished by the ear. The stethoscope is very useful in such cases, and the art of auscultation may now be deemed one of the most important means of diagnosis.—Percussion is a branch of auscultation by which artificial sounds are obtained as a means of discerning the state of the parts from which these sounds proceed; but where the natural sounds of motion can be distinctly heard, they are often more to be relied on than the artificial sounds of percussion, although the latter are, in many cases, very useful; particularly in denoting the presence of fluids, and the nature of peculiar tumefactions, in the organism. The art of auscultation is of recent ganism. The art of auscultation is did date, but it was long believed to be a useful aid in diagnosis. In the middle of the 17th Useka in his posthumous works, obcentury, Hooke, in his posthumous works, ob-serves that "there may be a possibility of dis-covering the internal motions and actions of bodies by the sounds they make. . . . I have been able to hear very plainly the beating of a man's heart; and it is common to hear the motion of the wind, to and fro, in the guts. The stopping in the lungs is easily discovered by the wheeling. As to the motion of the parts, one among another, becoming sensible they require either that their motions sensible, they require either that their motions be increased, or that the organ be made more sensible, they require either that their motions be increased, or that the organ be made more mice and powerful to sensate them as they are; for the doing of both which I think it is not impossible but that in many cases, there may be helps found." In 1761 Loopold Avenbrugger, a German physician, residing at Vienna published a small volume, in Latin, explaining an artificial method of producing sounds in various regions of the body, by which the physician might judge of the tate of the subject to parts. This method was percussion. The book remained almost unknown until 1808 when to mained almost unknown until 1808 when to reserve translated it into French, and made the method known to all the countries of Europe. The practice of prousion has since become general, and, in many cases, is found highly useful. The method of studied discountries of the heart and language to the method of observing sound made naturally, by the action of the heart and language course. ciples, I buble, Bayle, and Laennee, continued the same course. In speaking of the sounds pr duced within the chest by respiration. Double observes "that we must apply the car closely to every point of all its aspects, by which means we can distinguish, not murely the kind and degree of the sound, but even its precise locality." This practice became general among physicians, and is often used, at present, in preference to the stethoscope, by those who

have an acute sense of hearing; but the oscope is indispensable, as an aid to ad or as a convenient artificial means of the sounds of the heart and langs, patients object to removing the cutar patheir dress, or allowing the head of the cian to be placed in contact with the uthe chest.

AUSENCES, in ancient geography, a savage people of Libya, who, sense Herodotus, had their women in comma children were brought up by their man they were able to walk, after which the introduced into an assembly of men, we every 8 months, and the man to whe child first spoke adopted the child as his AUSONES, the name of an ancient to

copie, of Italy, supposed to be a which have the greatest claim to a selves autochthonous, or indigenous to the if such a thing can be predicated of my Their origin and the account of their settlement, or location, in the p back far beyond the period of anth and is lost in the mists of antiquity, in order to account for these, nation recourse to fable; and that fi usual in all the western nations of E reference to events posterior to, and e on, the events of the Homeric war of coincidence so remarkable that it has k historians to believe in the reality of instorians to believe in the reality of a will implicate of society, leading to a will migration of the peoples from the we and eastern parts of Europe, still fert westward, which may have occurred less remotely, before the historic as which the events may have been provided in the country of the statement of t at least shadowed out in some much obscured by mythic investi almost universal traditions of all from Italy to the extremities of we This tradition, in the present is the Ausones to be descendants of son of Ulysses and Calypso, which wholly fabulous, since there were such persons as either of those ments. It is possible that the form of msy simply indicate that the trib to be descended from the maradventurers with strange for of Italian or island origin; true of most of the peop since the early Greek on uists, in the true sense of the their wives and households u piratical advecturers, who t Normans would have called Normans would have eatled to themselves both lands and awords. They are held, by portion of the great Oscan as ence forces itself on the stude history at every town, while antiquities, their language, a solved, and probably insolul rest.

VIA, the great southern division of next below Italia Propria, called in s Magna Grecia, in consequence of colonized, peopled, and governed by of that country, of which it adopted ge, the arts, the refinements, and, in rs, the effeminate softness. Before d, or succession of periods, it seems to have been called Ausonia, but cially along the southern and south-coasts, from the Ausones, the tribe immediately above, who, whatever in, spread themselves over all the coasts, from Campania and the mouths ris, or Garigliano, downward to the promontory and the waters of the Tarentinus, or bay of Otranto. The ern parts, including the shores of the spur of the boot, up to the gulf of ais, were known to the Greeks as a sing the lands whose the west wind eing the lands whence the west wind, w to them across the lower part of ic; but this was a geographical, whereic; but this was a geographical, where is is an ethnographical title. The ring on the southern shores of Italy, called the Lower or Tyrrhenian sca, frum vel Tyrrhenum, lying between olitan dominions and the islands of fardinia, and Sicily, was anciently mare Ausonium, the Ausonian sea. IIUS, DECIMUS MAGNUS, a Latin numarian, and public functionary of rempire, born at Burdigala or early in the 4th century, died. The son of a distinguished phydsenator, he turned his attention, ally, to the bar; but literature was it by choice. In the year 367 he ted by the emperor Valentinian to his son Gratian, whom he accomb Germany the following year. He saively to the honorary titles and digunt of the empire, questor, governor of Libya, and Latium, and lastly, in of first consul. His poetry is characteristic to the poetry is characteristic to the poetry is characteristic to the poetry is characteristic. of first consul. His poetry is charby extreme licentiousness and pruad is as bald of invention, as poor in
as redundant in ornament, and as by mechanical and verbal inid artifice, as can be imagined. t is so close an imitation of, or rather n from, the classic writers, that in ears the character of a cento rather iginal composition. The writings of have, however, their value, as estabcisely the character and condition of his time; and as possessing, in some wing to his position as a courtier and f letters of highest degree in the emnature and authenticity of poetical raneous memoirs. There has been rary discussion, approaching almost 18, as to the question whether Ausoa Christian or a Pagan, the advobe latter side of the argument insist-the licentiousness and intentionally

voluptuous style of his writings, as well as the great use he has made of heathen mythological machinery in his compositions, prove him to have been, if not a pagan, at least no Christian. The best editions of Ausonius are: 1, a very rare one by Tollius, with a commentary of Scaliger, and selected notes by various critics; 2, the Delphin edition, which is excellent; and 3, the Bipont edition of 1783, which is correct and of authority.

and of authority.

AUSPICES (Lat. auspicium, from avis, a bird, and spectio, inspection), the watching of the flight of birds for the purpose of divining the will of Heaven with reference to future projects or the destiny of individuals. Among the Greeks auspices were called οιωνοσκοποι, and among all primitive nations the superstitions tendencies of the human mind have fastened upon the flight of birds, and above all, of the eagle, as a matter of deep import. The aboriginal inhabitants of this continent held this superstition in common with the Greeks and Romans. See Augues.

AUSSA, or Houssa, written also Hawasa, a town of eastern Africa, in Adel, on the sea of Babel-Mandeb. It was once an important place, but has now very little trade. The chief men of the Mudacto tribes reside here. Pop. 6,000.

AUSSIG, a little Bohemian town in the district of Leippa on the left of the Elbe, at the junction of the Bila; pop. about 3,000. It is the birthplace of the celebrated painter Raphael Mengs. His father, Samuel Mengs, presented to the town a beautiful Madonna of Carlo Dolce, which is preserved in the old church (said to have been built in 826) of the little place. Aussig was in former days a strong fortress, but in 1426 it was destroyed by the Hussites. In 1583 it was desolated by a fire; in 1639 seized by the Swedish general Bauer. The whole neighborhood is also full of historical reminiscences. The battle-field of Kulm is within an hour's walk.

AUSTEN, Jank, English novelist, born Dec. 16, 1775, at Steventon, in Hampshire, of which place her father, a highly accomplished man, was rector, died July 18, 1817. By him she was educated, acquiring a knowledge of the classics. It is not known at what time she commenced authorship. In her youth she was beautiful and graceful, but a disappointment in love determined her against marriage. "Northanger Abbey" (which was published with "Precaution" after her death) was the earliest and weakest of her works, all of which, except these posthumous ones, appeared anonymously. "Sense and Sensibility" was published in 1811, and immediately obtained popularity. "Pride and Prejudice," "Mansfield Park," and "Emma," succeeded at regular intervals—the last in 1816. Her father was compelled by ill health to pass his latter years in Bath, where his daughter had ample opportunities for minute observation of the country-town society. On the death of Mr. Austen his widow and 2 daughters returned to Hampshire, and removed in May, 1817, to Winchester, where Miss Austen died

and was buried in Winchester cathedral. Her novels, which are not of the "sensation" class, Her have long been popular as "distinct delineations of English domestic life, with a delicate dis-crimination of female character." Her own opin-ion was that one of her novels was "a little bit of ivory 2 inches wide," on which she "worked with a brush so fine as to produce little effect after much labor." Sir Walter Scott in his private letters repeatedly culogized Miss Austen.
Writing to Joanna Baillie he mentioned her as authoress of some novels which have a great deal of nature in them-nature in ordinary and middle life, to be sure, but valuable from its strong resemblance and correct drawing."
Many years later, in his journal, mentioning his
reperusal of her "Pride and Prejudice," he reperusal of her "Pride and Prejudice," he says: "That young lady had a talent for describing the involvements, and feelings, and characters of ordinary life, which is to me the most wonderful I ever met with." A few months before he died, when conversing with Mrs. Davy at Naples, Sir Walter, alluding to Miss Austen, said: "I find myself every now and then with one of her books in my hand and then with one of her books in my hand. There's a finishing-off in some of her scenes that is really above everybody else." Archbishop Whately spoke of her in the "Quarterly Re-Archbishop winterly spoke of her in the "Quarterly Review," in terms almost as high. Charlotte Bronte has criticized Miss Austen very differently; in one of her letters she says: "I had not seen 'Pride and Prejudice' till I read that sentence of yours, and then I got the book. And what did I find? An accurate deguerreo-And what did I and I An accurate daguerreo-typed portrait of a commonplace face; a care-fully fenced, highly cultivated garden, with neat borders and delicate flowers, but no glance of a bright, vivid physiognomy, no open country, no fresh air, no blue hill, no bonny beck. I should hardly like to live with her ladies and gentle-men in their elegant, but confined, houses." Again, referring to George Sand, she says: "She has a grasp of mind, which, if I cannot fully has a grasp of comprehend, I can very deeply respect; she is sagacious and profound,—Miss Austen is only shrewd and observant."—Miss Austen's novels have sold largely in the United States, and have

been translated into French.

AUSTEN, or AUSTIN. WILLIAM, an El architect of the 15th

reign of Henry VI., and v
erect the tomb of Richard,
This monument was 21 ye

at 22,458 sterling.

AUSTERLITZ, a town of cle of Brunn, 12 miles E. 8. En 17

cle of Brunn, 12 miles E. S. E. IP
capital of the district and circle. 'Ima
owes its celebrity to the battle won by
over the united Austrian and Rus
Dec. 2, 1805. On Nov. 13, of that year, v
which had never yet yielded to an enemy.
entered by Gen. Sebastiani, with a b
dragoons, supported by
Bertrand, at the head on m
grenadiers. By a stratag
intrepidity and coolness, v

more than a suspicion of a breach of fail, i generals made themselves masters of the h of Thabor, which had been lined with con tibles, trains laid and matches lighted, a for instant configuration, and thus placing selves a choral on the Danube, destroys effect of the masterly movements of Las who was no longer protected in his re the Danube, but was forced to retrest, if a were possible, on the second Russian an the presence of an enemy 4 times a his own force. Delighted with the their stratagem of the bridge of Thabor, by their stratagem of the bridge of Thaber, by of a pretended armistice, Murat endesse play the same game, a second time, on the Russian; but he turned the game on a ventors, and by pretending to fall in snare extricated his whole force, with a ception of a rear-guard of 8,000 mm, 1 Bagration, whom he left to check the he exposed to their whole power, while he his army defiled rapidly to the rear and 4 the important post of Znaim, where he joined by Bagration, bringing in 5,000 joined by Bagration, bringing in 5,00 after fighting the whole French army, d whole day and half a night, at Hollahrus Guntersdorf, where he left 3,000 dead on the The remainder of the month was con both parties, in almost unparalleled reinforce and concentrate their armi its close, the allied Austrian as armies had effected their junction to the number of 104 battalions and rons, presenting a grand total of 75, In addition to these, a division under duke Constantine, and a strong of Benningsen, were hourly expected, while the property of the pro while it was known that Prussis and that in a few days the French tions would be menaced by the a troops of that nation on the Dans time, the French army was but 50,000 strong, and when Constant forcements had joined the allies, he ed with vigor, Napoleon would he great danger. and vacillating; Napoleon also o that his army amounted to 7 he moment when the Austro-letermined to attack him. In the istermined to attack him. I suppless evacuated the tow and concentrated his whole for othering his right wing, as if for a that quarter, in the hope many to quit his commanditudints of Pratzen, in which ain of taking him at disadv. ngly, on Doc. 1, with the first or to his inexpressible delights of any the enemy descending moving delib

been admirable, had it not been su

partially covered by wooded emi-lages, and a chain of fish ponds, and little lakes. The left wing was l by Lannes, Bernadotte, and Oudi-he cavalry of Murat, and the impe-under Bessières, in reserve. Soult entre, which was immensely strong; st, who had been brought up with alty from Hungary, commanded the h was thrown back in a great semi-lake of Mœnitz, and had his reserves y of Raygern in the rear. All day son watched the enemy with an eagle crowding the heights of Pratzen glittering masses they endeavored to eir general movements around his der to attack his right wing in over-lorce. But, when the sun set, he was the had them in the hollow of his the had them in the hollow of his, as was his wont, he rode through idressing his men with those words ich none knew so well to utter, and te of those magical proclamations, hey appear to us, when read in the dy and bombastic, stirred the souls iers, and rendered them invincible. night, which was the first annivercoronation, the soldiery, wrought ighest possible pitch of excitement, the event by making huge bonfires the event by making huge bonfires of their bivouacs and the wood of and the hours of darkness were spent of joy, and amid the anticipations of ory. When the sun rose, bright and hat "sun of Austerlitz," which so hat "sun of Austerlitz," which so hed Napoleon with a theme for his sublime apostrophes, the ruin of was apparent to all eyes. The Pratzen, the key of their posi-atterly deserted, and their huge and sions were toiling in columns of and the whole front of the concench semicircle, intent on turning the of Napoleon, who had only to launch in all directions, like radii from a mtre, in order to attack the enemy d at the utmost disadvantage, on all itaneously. It appeared as if no numrity of defeats, could teach the allies, rere dealing with one in whose preske one false move was to be annihimarshals saw the advantage, and be emperor to give the signal for bout delay. But his keener eye, we all that they saw, perceived ecisive moment was not yet. The tted blunder might possibly have wed, and he waited. "When the aking a false movement, gentlemen, the care not to interrupt him. We ominutes." Before that time had e faulty movement was complete; the Russian guns was heard from a French left; and an aide-de-camp p, with tidings that Davoust was d in the village of Sokolnitz. "Now

is the time," said Napoleon, ordering his maris the time," said Napoleon, ordering his marshals to their posts, and to commence the attack on all points; while, mounting his horse, he exclaimed, "Soldiers, the enemy has imprudently exposed himself to your blows, we shall finish the war with a clap of thunder!" And so it was. Soult's centre instantly forced, carried, and held the heights of Pratzen, in spite of the most desperate efforts of Kolowrat and Kutusoff to retake it. Bernadotte and Lannes, simultaneously, fell on the Russian right, taking simultaneously, tell on the Russian right, taking it utterly by surprise; and, although the Austrian cuirassiers in that quarter, and the Russian cuirassiers of the imperial guard, led by Constantine in person, in the centre, made a desperate effort to retrieve the day, and, for awhile, were successful, so soon as the French reserves of the imperial guard came up, under Rapp and Bessières, all was over. The centre was pierced through and driven completely off was pierced through, and driven completely off the field, in confusion. The carnage and dis-order were hideous; and, to increase both, the icy surface of the frozen morasses and lakes, across which the fugitives were attempting escape, broke, partly from the weight of the artillery and the pressure of the columns, partly from the effect of the French shells bursting under it; and above 2,000 men perished in the waters. Meantime, with characteristic obstinators. nacy, Davoust, though sore pressed on the French right, had held out, until, the Russian centre and right being annihilated, or pushed off the field, Napoleon directed Soult, from the victorious centre, and all the reserves of the imperial guard, to wheel upon the rear of the Russian left, which had been thus far successful. It was a vertical of this far successful. Russian left, which had been thus far successful. It was a portion of this force which, while endeavoring to reopen its communication with its own centre, perished in the frozen lakes, as just related. The ruin of the whole army was now complete; and the last stroke was the breaking of Murat's cavalry, and the infantry of Suchet, into the retreating masses of this last force, dislodging it from the road to Olmutz, and capturing all its artillery and baggage. The loss of the allies was immense; above 10,000 men were left on the field; above 20,000 were prisoners; 185 guns, 400 caissons, and 45 standards were the trophies of the battle. Its fruits were the close of the campaign; the standards were the trophies of the cattle. Its
fruits were the close of the campaign; the
peace of Presburg; the subjugation, for the
moment, of all northern Europe; and the death
of William Pitt, who died, almost brokenhearted, at the apparent failure of all his efforts.
Austerlitz is justly considered as one of Napolean's greatest victories, and the strongest proof leon's greatest victories, and the strongest proof of his surpassing military genius; for although the errors of the allies were doubtless its primary cause, the coup d'ail which detected the blunder, the patience which abided its time for the completion, the decision which struck the crushing blow, and the lightning swiftness which consummated the ruin, were beyond praise, almost beyond admiration. Austerlitz was a miracle of strategy, and will not be forgotten until wars have ceased to be.

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AUSTIN, a county of Texas; area, 950 square miles. It is traversed by the Brazos river, which is navigable by steamboats during high water. The soil is fertile, except in the S. E., where it is poor and sandy. Capital, Belleville. In 1850 the productions were 120 bushels of wheat, 1,474 of rye and oats, 149,230 of Indian corn, 40,852 of potatoes, 355 tons of hay, and 98,412 pounds of butter. Pop. 6,599, of whom 4,305 are free and 2,294 slaves.

AUSTIN, the capital of Texas, seat of the courts of Travis county, on the north side of the Colorado river, 230 miles W. N. W. of Galveston, with which it is connected by the Colorado, navigable in the winter by steamboats. The environs of Austin are highly picturesque. It contains the state and county buildings, and 3 newspaper offices. Here the supreme court is held annually. The seat of government was fixed at Austin in the year 1844. Pop. 3,000.

The environs of Austin are highly picturesque. It contains the state and county buildings, and 8 newspaper offices. Here the supreme court is held annually. The seat of government was fixed at Austin in the year 1844. Pop. 3,000. AUSTIN, Jonathan Loring, secretary and treasurer of Massachusetts, born in Boston, Jan. 2, 1748, died May 10, 1826. He graduated in 1766, was a merchant and secretary of the board of war in Massachusetts. In 1777, on occasion of being sent to Paris to the American commissioners with the news of Burgoyne's capture, he put up a note in Dr. Chauncy's church for a prayer for a safe voyage. The doctor, full of the spirit of patriotism, prayed that, whatever might become of the young man, the packet might arrive safe. He remained 2 years in Paris as Dr. Franklin's secretary. He also spent 2 years in England as agent of Dr. Franklin, residing in the family of Lord Shelburne. On his return in May, 1779, he was liberally rewarded by congress. In 1780, in his passage to Spain as agent of the state, he was taken and carried to England. Heafterward held the offices of state secretary and treasurer in Massachusetts, and died universally respected.—James Trecornic, son of the proceeding, former attorney-general of Massachusetts, born at Boston, Jan. 7, 1784, graduated at Harvard college in 1802, and soon after commenced the practice of the law. In 1806 he married a daughter of Elbridge Gerry, afterward vice-president of the United States. Herose in the profession, and was attorney-general of the state from 1832 to 1843. Beside numerous contributions to the Christian Examiner, and political journals in Boston, he has published several orations and other similar literary productions, and a biography of Elbridge Gerry, presenting a picture of the life of the revolutionary worthies.

AUSTIN, Moses, a south-western pioneer, who obtained the first grant from the Mexican govern

AUSTIN, Moses, a south-western pioneer, who obtained the first grant from the Mexican government for the formation of an American colony in Texas, was a native of Durham, Connecticut. He led an adventurous life, engaged in lead-mining in Virginia and Missouri, through a most Louisiana, where he calculated a most 1800. He entered Texas are in 1820. There he is a made proved by the local aut

to the commandant-general at Montere plication for permission to colonize 36 lies in some part of Texas. Unable to for an answer, he set out on his retained in January, 1821. Robbed and in that unsettled waste, he contracted cold in making his way to the inhabits of Louisiana, of which he died on t June following. The application he lon was successful, and the enterprise and the state of the state of Texas.

of the state of Texas.

AUSTIN, Samuel, D. D., president university of Vermont, was born at I ven, Ct., Oct. 7, 1760, and died at Glas Ct., Dec. 4, 1830. He graduated at I lege in 1783, with the highest has after studying divinity 2 years, was on pastor of the church in Fairhaves, 1790 he became the minister of the gregational society in Worcester, a formed the duties of this station for enjoying the warm esteem of his paramad a high reputation as a prescher, he accepted the presidency of the tof Vermont, and held that office for He then removed to Newport, R. L., charge of a small congregation that the end of 4 years his health failed, a turned to Worcester. During the last of his life his reason was clouded, at a great part of the time he was plan profound melancholy, amounting at the estate of the time he was plan profound melancholy, amounting at the cstasy of despair. The most implies works are a "View of the Charles "Letters on Baptism," examining Me en sermons, a reply to Merrill's twelf and a number of sermons.

AUSTIN, SARAR, an English and longing to the celebrated Taylor fami wich, and wife of John Austin, a be London, born about the commencem present century. The rank which won by Mrs. Somerville in the his English science, by Mrs. Gaskell Charlott

Charlotte Browning among English by Mrs. Browning among English belongs to Mrs. Sarah Austin as its ative of the female intelliget of English processes and the control of William Taywich, and Thomas Carlyla, no Enhance done such good service as Mr introducing the finest types of mind to the knowledge and the of English readers. As a crisc has not, perhaps, been altered to translature the has been altered to translature the has been altered to most return table achievement in the

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person of the prince was familiar mbers of the society of London, e to all the polished world of Eu-he idiomatic painting and fluent English translation were so admi-English translation were so admi-or a long time it was difficult to my cultivated persons, and not a hat the work was not the compo-e English author, after the manner atters of Espriella," which won for so much reputation in the begin-century. The first work which century. gave to the world under her own publication in 3 volumes, which 1833, and was entitled "Charac-Joethe." This book won an im-lasting success, which it well de-only for the excellence of the ch it contained, but for the quiet ous earnestness with which the ned less the indication than the the worth and power of Goethe, en Germany and Germanism were ror of the standard authorities in ature. Mrs. Austin has since pub-dation of Ranko's "History of the alation of Kanke's "History of the Collection of Fragments from the writers," composed upon the addy critic in the "Edinburgh Rescellent treatise on "Education, scome an authority on the specific which it deals, "Sketches of Ger-1760 to 1814," and a new edition without an End." As a singularwithout an End." As a singular-refined, thoughtful, and accurate s, refined, thoughtful, and accurate ting all her energies to the positive t of the taste and elevation of the erions of her country, Mrs. Austin England hardly less than was done de Stael for France and Europe, ner fame can never rival that of the ghter of Necker, her influence will e to be felt in English literature and ys for good.

STEPHEN F., founder of the first slony in Texas, and son of Moses Dec. 27, 1836. Setting out from 1, July 5, 1821, to follow up the rizing the formation of a colony, sued to his father, he went to the 2, where it was specially confirmed 3. By it he was clothed with alte power over the colonists, and to report to the captain-general. since become Austin, the capital of hich he selected the site after a noitring of the country, had been ganized by him upon the basis of ch man 640 acres of land, 320 for reach child, and 80 acres for each he immigrants being made up in young unmarried men, he induced e in pairs, making one of them the family thus constituted, and innumber of families, which singular is said to have resulted to the sat-

isfaction of all concerned. Their great trouble was with the Indians, who, in large bands of different tribes, roamed over the fertile plains, armed with bows of the length of a man, and so strong that few Americans could string them, and whose arrows flew with an unerring speed, which made them a match for the rifles of the settlers. Nevertheless, the colony prospered, and, being accompanied by a considerable number of similar associations, promoted an influx of Americans to such an extent that they met March 1, 1833, without the concurrence of the Mexican population, in a convention to form a constitution for the as yet Mexican state of Texas. Austin was one of the delegates chosen to carry the result of their deliberations to the central government at Mexico, and obtain its ratification. The delays and frequent revolutions at Mexico leading him to despair of ever bringing his commission to a close, he addressed a letter, Oct. 2, 1833, to the municipality of Bexar, and through them to the people of Texas, recommending a union of all the municipalities to provide against the consequences of a proba-ble refusal of their applications by organizing a ble refusal of their applications by organizing a state under the Acta constitutiva of May 7, 1824. This letter was immediately transmitted from Bexar to the supreme government, by whom, its contents not failing to be considered treasonable, an express was despatched after Austin, and he was arrested on his way from Saltillo, taken back to Mexico, and thrown into prison. Here he remained for 2 months do prison. Here he remained for 3 months, deprived even of the light of day, until released by Santa Anna, who had meantime arrived at the head of affairs, and who continued to hold him as a sort of hostage for the good behavior. The commission with which he was charged was brought before a select council, Santa Anna presiding; and although the deci-sion was against the separation of Texas from Coahuila and the formation of a new state, he wrote a letter, Dec. 2, 1834, to the people of Texas, expressing confidence in the policy of Santa Anna, and recommending quiet and harmony with Mexico. There he was detained until Sept. 1835, and on his return was welcomed by all parties. Finding the condition of the country so different from what he had been led to suppose, confusion and insecurity having swallowed up all the functions of government, he immediately took part with the revolutionary party, which had been forming in his absence, and, after the first affair at Gonzales, Oct. 2, was put in command of their little army, and undertook at once the work of driving the Mexicans out of Texas. His first act was to into eastern Texas for Gen. Houston and send into eastern lexas for Gen. Houston and the Redlanders, his second to invite the con-sultation of San Felipe, the only existing em-blem of civil government among the settlers, to take up their quarters with the army. On Houston's arrival, Austin offered to resign the command in his favor, as being more accus-tomed to military pursuits, which the former entirely declined. He was, however, soon

elected to that post, in Nov. 1885, and Austin appointed a commissioner to the United States. This was before the Texan declaration of independence; and it was not till after his arrival at New Orleans, and the information of the union of Santa Anna with the federal party for the invasion of Texas, that he was brought to the point of recommending such a measure. In this country he acted with prudence and patience, and was very successful in preparing the public mind and improving its disposition for the independence and annexation of the new republic. On his first coming he issued an address at Louisville, which set forth attractively the claims of Texas, and in a wide direulation could not fail to produce a feeling of sympathy among a people of the same blood. He even writes from New Orleans, on his return from Washington, June 16, 1836, that but for the want of official documents upon which to make a formal demand, he might even then have obtained the official recognition of her independence. He reached Texas in July, and while still engaged in zealous negotiations to that end, was removed by death in December. He died amid universal esteem and recognition of his patriotic services. All honors were paid his remains, and he is looked upon as one of the most eminent and honorable of the founders of Texan prosperity. A biography of Austin is said to be in preparation by Gen. M. B. Lamar. (See Yoakum's "History of Texas," New York, 1856.)

1856.)
AUSTRALASIA, one of the 3 geographical divisions of Oceanica, lying S. and S. E. from Asia, extending from the equator to lat. 47° S., and from long. 111° to 183° E., and comprising the islands and archipelagos embraced within those boundaries, of which the large continental island of Australia is the nucleus. The name was formerly given indefinitely to all the lands lying S. of the Asiatic continent. The land area of the islands belonging to Australasia proper is about 3,500,000 sq. miles, and the population, including the aboriginal tribes, may be estimated at 2,500,000.
AUSTRALIA, or New Holland, a vast island

AUSTRALIA, or New Holland, a vast island in the southern ocean. In size it approaches the proportion of a continent, comprising an emated area of 3,000,000 sq. lea. or only sixth less than that of Europe.

braces a circuit of 8, lea. or only late 10° 43′ S. to 39° S., and at least least

Malay type, and the fauna is essentially a in the 2 regions, marsupials being the m characteristic of the Australian group who pearance in the adjacent islands of the and go is altogether exceptional; while, on the hand, the animals which abound in the w part of the Indian archipelago are wholly w n Australia. Not less marked is the between the flora of the 2 geographic sions, except that in the northern p tralia, situated in the tropics, som plants which have been borne by the wi currents from other shores have taken form part of the vegetable productions region.—The geography of Australia and most unknown, notwithstanding the and which the great island has received d last few years. The line of coast was and its indentations mapped out by Finds other commanders, in the early part of the tury. The general features of the scales south-eastern regions to a distance of t or 400 miles from the coast have tained, but the northern coast has been the explored. North-eastern and weather tralia are somewhat better knows; is great central regions are at present a lour maps, their character being the merely of speculative approximation Thomas Mitchell penetrated as far as in The lamented Leichardt traversed the from Moreton bay on the E. to Port in the N., but his murder by the ble pointed the great hopes which had ed for his projected journey from Swan river, directly through the torre The opinions of Stuart, Oxley, Mi others, who have made any progra the exploration of central Austral consists of a succession of vast arid ing rise to the hot winds which b direction in the summer, and of of immense swamps when flooded ter rains, for whose outlet there are courses. This opinion is founded or ter of that part of the country wh But the light thrown traversed. known African interior by th cent travellers and expli tion of numerous unfono as to look very doubtfully on specting central Australia, bas n very sender materials. dy possess, nequired with to see board, certainly justif of the s to the per Ametralia. in the unbroken of Corportaria in the north alia bay, and Spencer and

found at Syd on the east come, and the want river, and the want the only change being the number of the individuals.—The Swan river, on the w tralian mountain ranges extend throughout South Wales, Victoria, and south Austra-Not only are there continuous ranges, but the contry is covered with lofty bluffs and old masses, probably forming parts of one hain though cropping out at very wide inter-als. The ranges commence at Wilson's promatory, the extreme south-eastern corner of the the extreme south-eastern corner of the continent at which point they make an angle whose sides run due N. and W. The distance of the range running N. from the sea varies from 50 to 150 miles. The ranges are called the Bue mountains, the Liverpool range, and the Woolongong mountains, or Australian Alps. well as others in the Liverpool range, attain the height of 6,500 feet. In the northern part of the colony of Victoria the ranges run E. and W. and are known by a variety of local names. The Stanley ranges divide south Aussian from Victoria. Gipps's land, the southtern part of Victoria, is a mountainous distriet, harboring great droves of wild cattle, and plored except by an occasional stockman.

The peculiar circumstances into which the colohave been thrown of late years have checkthe progress of inquiry into their general ge-taphy, although particular localities have explored.—Count Strzelecki, one of the management of the complished and indefatigable of modern deatife travellers, has given an elaborate account of the results of a 5 years' exploration of two South Wales and Van Diemen's Land. From his admirable work we abridge the following account of the mountain ranges of New South Wales: "From the eastern side the abore line is generally composed of an undulat-ing country, richly wooded, and gradually rises westward until it spreads into a centre ground of verdant, round-topped hills and ridges; be-yond these is high land broken by peaks. In lat. 30° (the western part of New South Wales) a grantic chain divides the sources of the rivers Peel and Hastings. Further south one of its eastern spurs of porphyry divides the Manning from the Hunter. This part of the chain is alled Liverpool ranges, and is crowned by several peaks of greenstone, whose naked tops rise of these Mt. Oxley and Mt. McArthur are the chief. Westward of these the than turns suddenly to the S. E., and a little after S. W. At Cullenbullen the chain is grantic and throws off a remarkable basaltic spur to the eastward, the ramifications of which render all that sandstone locality commonly called Blue mountains difficult of exploration. The mountains here attain an altitude of from 2,400 to 4.050 feet, and between the ranges are yawning chasms, deep winding gorges, and frightful precipices. These stupendous rents are enclosed networn gigantic walls of a sandstone rock. Everywhere the descent into the deep recess is

full of danger, and the issue almost impracticable. From the Blue mountains proceeding S. W., the chain is composed of signite and granite.—We now come on the Honeysuckle ranges, the mean elevation of whose greenstone crest is 4,050 feet. Twenty-five miles beyond, it attains an elevation of 4,500 feet, and its character alters. The richly wooded greenstone tops are exchanged for barren, fantastic peaks of sienite. A spur of basalt shoots off in a northward direction for 120 miles, and separates the Mac quarrie from the Abercromby. The chain itself now assumes in the S. W. bend a more rounded and wooded aspect, which at the head of Lake George again alters. Here a westerly spur of George again alters. Here a westerly spur of serpentine and porphyries divides the tributaries of the Murrumbidgee from those of the Lachlan. Further on, beyond Lake Bathurst, another spur branches off to the north-east and stretches over Camden and Cumberland, exhibiting the most picturesque and the most savage scenes. Sixty miles further south the chain becomes bolder. Its greenstone and sienitic crest assumes the appearance of Alpine table-land, at times rises and breaks into sharp-edged summits, capped here and there by snow in the midst of sum-mer. The surveyor now advances to the Australian Alps, the spurs on either side of the main ridge preparing him by their precipitate and intricate character for the country he is about to traverse. Mt. Kosciusko, the chief peak of this range, is 6,500 feet high, and the view from its summit is one of the most magnificent in the world. On the westward side is the gorge, almost perpendicular from the verge of the cone, and 3,000 feet deep, with the sources of the Murray, whose waters flow through beautiful valleys, displaying scenery to be compared only with that seen among the European Alps. From Mt. Kosciusko the chain still trends southwest, and maintains the same bold character, though of diminished height. The general charthough of diminished height. acter of the whole region hence to westward is narrow, almost impassable, gullies and thick underbrush. Eastward is a fine country of beautiful slopes and valleys, richly watered, and presenting fine sites for farms and country residences. From Mt. Gisborne the eye takes in Gipps's land like an amphitheatre walled in by lofty and picturesque mountain scenery on the N. E. to S. W., and on the S. E. open to the sea. Proceeding S. we arrive at Wilson's promontory, where the continental range encounters the sea, rising in a chain of rocks and islands from the ocean as it crosses to the opposite coast of Van Diemen's Land. The most prominent and striking features of this outline consist in the mineral masses which form the dividing range, composed of granite, sienite, hyalomictite, protogine, quartz-rock, petiosilex, porphyry, serpentinous hornblende, and augitic rocks; partly in the character of the sedimentary rocks of silicious, calcareous, argilla-ceous, aluminous, and bituminous character, which are confined to the eastern and western talus of that range, resting on it either in a ver-

tical, inclined, or horizontal position. Its main phenomena are referable to epochs of terrestrial phenomena are referable to epochs of terrestrian revolutions; some relating to periods marked by a partial quiescence and the deposition of sedimentary rocks; some to perceptible changes in the condition of the organic life inhabiting the sea; some others, again, to catastrophes which swept from the surface inhabiting the sea; some others, again, or catastrophes which swept from the surface of the earth all its animal and vegetable kingdom."—There is a general deficiency of said that the rivers are all ponds, and the lakes all swamps, and the saying is not without reason. In the summer, from long droughts, and from the great evaporation under a sun which often exceeds 130° F., the lakes, formed only by the winter rains, dry up, and the traveller is surprised on being informed that an expanse of thick black mud or rank herbage is a lake. The small rivers disappear in like manner, forming a large chair of payable and water bales. forming a long chain of ponds and water holes varying in depth with the aridity of the season. The larger rivers are liable to a great diminuvolume from the same cause, and the consequent absence of tributary streams. A river of respectable size issues full grown from the hills, and after a course of many miles, ends in a dead level, where its course ceases. The in a dead level, where its course ceases. achlan, Darling, Murrumbidgee in New South wales, the Murray, which runs from N. S. Wales to Adelaide, the Glenelg, Goulburn, Yarra-Yarra, and Plenty, in Victoria, are permanent streams. The Murray, taking its rise in the Australian Alps, in the S. E. corner of Australia, runs its course of 1,000 miles and enters the sea near Adelaide by a very parrow mount, the enters are course of 1,000 miles and enters the sca near Adelaide by a very narrow mouth, the entrance to which is impeded by a bar. In 1839, Capt. Sturt boated the greater part of the Murray, but its extent and capabilities were unknown until by the individual enterprise of Capt. Cadell a small steam vessel was got over the bar at Adelaide, in which he proceeded up the river and demonstrated that a noble stream of river and demonstrated that a noble stream of 1,000 miles, and navigable for nearly its whole length, ran through the finest districts of the continent from the interior to the sea. The Darling, with its numerous tributaries, rising for the ranges of the Moreton Bay district, the Murrumbidgee, and its affluent, the Lachlan, all swell the stream of the Murray.—The geological structure of Australia has been hitherto but imperfectly determined. Inquiries on all topics of scientific interest, save those which bore on the question of gold, were for a time suspended notwithstanding the presence on the spot of many men of well-known fitness and capacity to investigate and determine all such subjects. The comparatively recent geological formation of Australia is, however, generally accepted. The analogy between its stratification and that of the old world is uncertain. We meet with granite, old red sandstone, limestone, and coal, but the relations of these several formations are as yet unascertained. Recent igneous action on the surface is apparent, and the immense bowlders of rusty iron stone honey-combed with

small holes, and scattered all over the nent from the sea-beach to the far interior sent a singular feature. Granite, lim sandstones, are found everywhere. As sively hard blue stone is quarried as bourne, splitting off in irregular frage flint, and bearing all the marks of surface action.—The climate throughout As generally favorable to European con In its dryness it most nearly resemble Spain. It is liable to severe drought extraordinary transitions of temperature in the mercury of 20°, to 30° F., and sa 40°, in half an hour, are common on thes ecially in the summer; and comparing t ing of the thermometer in the sun at the same at midnight, a variation of the 12 hours has been observed. The ture of a thermometer in the shade white a range of from 50° to 95°, affords a very quate idea of the heat, and of its effective equal to a vertical sun, 120° being no uncom of the thermometer; a traveller (I Howitt) has even stated his experience This is in the settled country. Leichard of 120° in the shade in the interior causes of these sudden changes may be in the change of the wind. The north coming from the interior, and bearing breath the fiery heat of the burnt up plains, bring down to the coast the c influences of a simoom; and wh breeze sets in loaded with moisture, th the thermometer is almost instanton has been observed that the great heats trails do not produce the enfeebling (the constitution which are observed in equally warm countries. This doubted, for the frame of native dents attains maturity at an age en portion to the climate, and aged pertainly rare. It must be admitted that there are numerous causes inde climate in operation at present unfavorable to longevity and health. unfavorable to longer it, and according to epidemic diseases, for, although in an ameravated shape is a very malady, we are not aware that the are particularly it.

Australia are of habiting the Ind and only in the Guines, the New Hebrides, New the Solomon Islands. The New a distinct race akin to the inhal The Australians are slight variety of a They have curly lain, the negro. Their broad at the bar than those of the

tey are certainly superior in nato to the Terra del Fuegans, and and adopt European habits. The early voyagers, however, as ignorant of the use of fire, milding huts. They have a tude in climbing trees, taking large toes, which by practice tarkably prehensile of inequalities; sometimes even they cut y ascend. They do not on huts, but content themselves bark or a large bough as a tewind. Whether they knew is less certain; they now kinding two dry sticks together, among savage tribes, and not seen communicated by civilized frequently eat their food raw their cooking is performed by in the ground, lighting a fire in in the slain animal, covering ntil the fire is out, when it is ciently cooked. In their native entirely naked; in the vicinity they wear sheepskins, or the slothing distributed to them.

ion indicating some degree of to compensate for this, they rily expert in the use of the ey fling 70 or 80 yards with the and in throwing which they extra piece of wood to give in-They use the club or waddy; the boomerang, a peculiar mis-a double-edged wooden sword, se; on being thrown into the air ound at a distance and rebounds ower. The use of so novel a in the hand of an inexperienced hurtful to himself, argues some erceptive and reasoning faculties. re inclined to cannibalism, not ns as matter of food, but as a re-The several tribes are engaged ds with each other, principally o their women. Their matriare peculiar. The women are and the seniors or head-warriors ctise polygamy, which increases e younger men experience in ves to their liking. Generally matrimony obtains a wife from Meeting a damsel to his taste, he wn with his waddy and carries ome. The husband tracks the quarrel is the result. Their iparatively bloodless; they take ird knocks on their heads withnarm. A single combat is fought blows on the head, until the comils his antagonist, remains the ie field. They are not usually in presence of the whites, but in of the colony they frequently exhibited great pertinacity in their attacks on out-stations. Their temper, though pacific and friendly, is not invariably so. Some of the tribes beyond the Murray are reputed to be treacherous and bloodthirsty. Their numbers are very limited; 80,000 is the highest figure that has been named, and even this is probably very much over the present mark. Rum has made great ravages among them. They are subject to cutaneous diseases, attributable to their extremely filthy habits. Their religious opinions are simple; they believe in a good and a bad spirit. They must have some normal ideas of a soul, inasmuch as since the white ocideas of a soul, inasmuch as since the white occupation of the country, they believe that white men are the reanimated souls of blacks. Many endeavors have been made, and not unsuccessfully, to bring them to a knowledge of the Gos-pel. Mr. Threlkeld, a resident of New South pel. Mr. Threlkeld, a resident of New Wales, has been particularly assiduous in this matter; he has compiled a dictionary of their Industry, in the state of the property of the state of very valuable in tracking depredators, from their native skill in following a trail. In Van Die-men's Land, where the natives were of a fiercer and more untamable disposition than on the main, a war of extermination was long carried on against them by the settlers, until the govern-ment at length took the matter in hand, and in-stituted an asylum in an island in Bass's Straits, to stituted an asylum in an island in Bass's Straits, to which the blacks, notwithstanding their wretchedness, were with much difficulty induced to go. The number has, even under the influence of kind treatment, gradually diminished, until of all the aborigines of Van Diemen's Land, there are not 50 left. Some few of the blacks are occasionally employed as stockmen or shepherds; but they are, like all savages, averse to regular labor of any kind, and the uncertainty of their services prevents their general employment.—The animal life of Australia varies widely from that of the rest of the world, varies widely from that of the rest of the world, and gives a special character to its zoology. The and gives a special character to its zoney. In the ferroe carnivora and mighty graminivorous animals, which have for ages peopled the forests and deserts of the old world, are unknown to the deserts of the old world, are unknown to the tenantless plains and dense bush of Australia, although a fossil elephant has been discovered by geologists. The carnivora are few in number and fewer in species; the chief predatory animal being the dingo or native dog. The domestic character of this animal among all nations would account for its presence among the aborigines, who in those transits from New the aborigines, who in those transits from New Guinea by which in all probability the great island was first peopled, were accompanied by their faithful attendants. The dingoes are a very inferior breed of the canine archetype, the shepherd's dog; their bushy tails and pricked ears give them a resemblance to a cross between the fox or wolf, and they hunt in packs, making night hideous with their yells, and are almost the only living enemy with which the shepherd

has to contend. The trouble they give is less in the murders they commit than in the panics they cause among the woolly people. A flock of 2,000 or 3,000 sheep will, on the alarm of dingoes, make a rush, as it is locally termed, and in the confusion the weaklings will be trampled down and smothered, while the main body spread themselves over miles of country, giving the flock-masters and their shepherds prodigious trouble to get them together again.

The dingo occasionally furnishes sport to a "acratch" nack of hounds and a few been sports. The dingo occasionally furnishes sport to a "scratch" pack of hounds and a few keen sportsmen; but he is fast disappearing from the settled country; poisoned bait, plentifully distributed, clears the sheep-runs of these unwelcome visitors. The other Australian carnivora are marine animals. The great zoological familiants are proportionally applied to the commitments and packydermets are lies, the ruminants and pachydermats, are wanting to Australia, while the graminivorous mammals are represented by a peculiar class met with but rarely elsewhere in the world, the marsupialia, animals with pouches, the class to which the American opossum be-lengs. In Australia and Van Diemen's Land marsupials. They all possess the same general characteristics, but differ in size, organization, and habits of life. The kangaroo macropus is the largest of all. They are distinguished by short fore legs, and immensely long hind legs. This disproportion causes a singular mode of progression, consisting of a series of leave or there are more than 100 distinct species of This disproportion causes a singular mode of progression, consisting of a series of leaps on the hinder legs. When feeding, they rest on the fore legs, but when moving rapidly they make great jumps, and when pressed in the chase they exhibit an astonishing speed, outstripping the fleet and powerful dogs with which they are hunted, their stride rivaling that of the race-horse. The hind legs, armed with 3 long claws, are formidable weapons of defence, and on coming to close quarters, a stroke of the claw will rip up an assailant as effectually as a boar's tusk. This is so well known even to the dogs, that an old kangaroo dog, although of great power and courage, will not hastly of great power and courage, will not hastily rush in upon his antagonist at bay, but watches rush in upon his antagonist at bay, but watches his opportunity or waits assistance before seizing him. All the langarous feed together and graze on the plains, or feed on the under shoot of the young trace—their flesh is wholesome, and resembles version. The tall, which is both long and thick, makes a soup in which both natives and settler have great faith. The rock kangarou delights in rocky places. The walland the small kangarou of the plains. The processing a shalland and the special have great faith. opossums (phalangers), another species, live in trees, and are remarkable for the case with which, like some of the monkey tribes, they hang to the branches by their tails and swing themselves from one branch or tree to another Another class of the same species are the flying sums (petaurus), the poculiarity of who conformation is a membrane extending from the hind to the fore legs, which gives them the power of supporting themselves in the sir, and helps them to take wide lesps from tree to

tree. The hairy tall called native devils, are found in the woods. marsupials. They reses marsupials. They resume ing the trees in search of you tory animal, about the si sembling a large weasel in fig nal, feeds on small animals, an for young lambs and poultry, species of rodentia, resemblis mice of other countries. On somewhat resembles the beau aquatic habits. The most anome animals known in Australia is the a chus or duck-billed animal, and t The echidna is covered with a quills like a hedge-hog, is a burro bernal animal, living on ants as The ornithorhynchus is a vivipare It is aquatic, living at the bottom roots and water insects, and as head and mouth resembling the which enables it to retain its bits to reject the mad to reject the mud and gravel with are intermixed. Australia furnis mbjects for the considera dia gist. Hawks, eagles, and owls a and in some parts almost exciting birds, and do great injury to you even to foals and calves. The part quets abound everywhere, a is remarkable for its brilli pigeons are numerous. Was eese, and swans, and the doub in countless myriads in th terior and along the see very numerous, but the gall wholly deficient. The enostrich kind, the pelican, the straw-necked his, bird of paradise, and a me among the more remarkabl tiles are not very numerous noxious. The diamond and poisonous, and the bite of the l s dangerous, but wheth irritation or from venom is un insects, a large spider, called the colonists, is decidedly spider is also poisonous; tipedes are also poisons tipedes are also poisonor not poisonous, bits very so numerous as to be a per fly is particularly observing ous in the case of won either on man or bes stantly, and deposits its hours produce gruhs. The cies of ants, some of wh (an inch long), and bit them the soldier ant and spicuous for size, strength are also various kinds of b cially a large white grub, f fixed with the nativos, of s



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y are by no means hypercriof their food.—The indige-Australia is altogether pecueucalypti and acacias are the vegetable life. Some naturess to have remarked trees to deltas and other recently posits, which would seem to hain of deductions by which recent formation of the Ausshown. The eucalypti gum n their copious resinous exuwood is very close and hard, wood is very close and hard, ill green, dense, and gloomy. normous size, 200 feet is a d their girth varies from 20 some primeval forests, even tained. They are spread all Australia and Van Diemen's s or wattle trees are another le-spread class. They are of small plant to a large tree, lowers. The acacia fragrans oriferous, while the golden to the sylvan scene. They vith tough stems, and seem andy soils, springing up with the ground has been cleared he bush-fires. The cedar tree seful timber of large dimenshe oak, and the stringy bark, enizens, the latter being found n mountain ranges. In New raceful forms of the cabbage ye at every side; the tera Brobdignagian nettle, the poison is so virulent that hat runs against it is struck , and death rapidly ensues. is close at hand, and the g rubbed with its beneficent sequences of the nettle stings native grass tree furnishes rights a substitute for their ny of the forest trees of Ausrk while the leaves are perenof moisture, however, the a leathery texture, and both side the above, we have which attain the perfection of a branches eight to twelve ant lily (doryanthemum) an ant fily (corrunteemans) and ty; the tea tree (leptosper-); and the remarkable stench lensifora), which, as its name an odor like the most offenhe indigenous fruits and edi-The quanfew in number. y, a root called native bread, ts, are the only ones known.

in the spring is of great
tolets with an odor like heand lobelias, gold flowers,
iesias, grevilleas, common
ther flowers, form an exten-

sive catalogue too numerous for this article; while the grasses of the plains grow to a great height, hiding cattle in their luxuriant abundance. To the introduction of foreign vegetables there is absolutely no limit in the suitability of the Australian climate. On the northeast coast, in the Moreton Bay settlement, the Japanese loquot, the date palm and the prickly pear, cotton, sugar, coffee, and tobacco, have been naturalized; while bananas, oranges, nave been naturalized; while bananas, oranges, and lemons, are exported to all parts of Australia. In New South Wales, Victoria, and South Australia, the cereals flourish with unsurpassed productiveness, and 64 lbs. to the bushel has been produced in Australian wheat. All descriptions of garden produce are All descriptions of garden produce are of superior character; almonds, figs, apricots, melons, grapes, and quinces, apples, pears, plums, are produced in great quantities, and of a quality that leaves nothing to be desired.

—By its mineral wealth Australia has risen at a bound from a terra incognita, to one of the most conspicuous regions in the history of the present decade. It had long been known to possess iron, and other minerals; but the discovery of valuable gold deposits on the surface, Δny gave a new impulse to the country. Any attempt to classify the districts in which gold is found would be vain; new diggings are con-tinually opened, and the metal, existing as it does in pure masses, does not seem to depend on stratification, but has probably been up-heaved along with other matter, and washed down by surface or subterranean currents. All that can be safely predicated of the materials in company with which gold is found, is that quartz and pipe-clay are very generally associated with it. The quartz is abundant, and is found from minute pebbles worn smooth by attrition, to huge blocks of many tons weight which crop out from the surface in irregular and fantastic forms. It is usually milk-white and opaque, but occasionally attains a semicrystalline transparency. Beside this, however, gold is found intermixed with sandstone, ironstone, white and blue clay. The range over which gold extends, is altogether undetermined. Recent accounts announce its discovery at the furthest limits of exploration. The profitable diggings have been hitherto confined to the Bathurst district, in the north of New South Wales, and to the hill country in the north and north-west of Victoria. In minute portions it has been found all over the four principal colonies. The gold was at first found in small pieces, on the actual surface; as the surface supply became exhausted, it was found at a short distance down, and the diggings have increased in denth as they have decreased in creased in depth as they have decreased in general richness. At Ballarat, near Geelong, where the most valuable lumps of gold have been found (28, 60, and 136 pounds in weight), the shafts are sunk to a depth of 80 to 100 feet. The gold has never been found otherwise than in detached pieces or particles, varying in size from minute globules to weighty masses.

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where its close contiguity has assumed the character of a vein, it is only that the deposit has acter of a vein, it is only that the deposit has been washed together into a subterranean channel or gutter.—Previous to the gold discovery, a copper ore of rare richness was found near Adelaide, in South Australia, well known as the Burra-Burra. Copper has been found in Victoria, while tin, lead, silver, and precious stones of various kinds, have also been discovered in the search for gold, and passed over for the present. Seams of coal have been discovered on Seams of coal have been discovered on the eastern coast, associated with beds of sandstone, and the fossil plants found in it were of a similar character to those in the Daumda coal of India. The coal is abundant, and has proved a veritable mine of wealth in the hands of its proprietors, since the influx of population and steamships to Victoria. Coal of excellent quality has also been found cropping out on the surface at Cape Patterson in Victoria, a point washed by the sea.—The political divisions of washed by the sea.—The political divisions of Australia since 1851, are, New South Wales, including the Moreton Bay district; Victoria, with its subdivision, Gippe's Land; South Aus-tralia, Western Australia; in the northern part of Australia there is the settlement of Port Essington, and another district called Victoria, the territorial limits of which have not been fixed. The island of Van Diemen's Land, or Tasmania, The island of Van Diemen's Land, or Tasmania, to the south of Australia, is a separate government, and the islands of New Zealand have another government. The governor of New South Wales is the governor-general of the Australian colonies, to whom the other governors are subordinate. This subordination is in point of rank and precedence only, for the various colonies are perfectly independent of each other in every respect. As the residence each other in every respect. As the residence of the governor-general, Sydney was considered the capital of Australia, and a mint was estabthe capital of Austrana, and a mint was established there; but the preponderance given by the gold discovery, has made Melbourne the commercial capital, to which, no doubt, in course of time, as the country becomes settled the tide of emigration will take its course, as its natural advantages are ce inly not inferior to that of the other coloni while it undoubtedly enjoys commercial supre history of Australia resolve narrow compass. Tand final abolition; nate plethora and bling speculations m seasons; and, since 18... and the new constitution up the great questions or z War, that ever fertile th -The cluded from consideration. of Australia is little more than that covery. The Dutch were probably uver the shores of Australia. the Duylen, proceeding from Bantaiu coast of New Guinea, saw Australia in March, 1606. as ward, Torres, a Portuguese his name to the straits v

Holland fr · Guines. coast of Australia and called it land, from the name of his ship, time other parts of the western coast time other parts of the western const covered, and in 1622, the Leswin dis-southern coast at Cape Leswin, as after Van Nuyts sailed from Cape it the southern coast, to Spencer's gulf. Land and Carpentaria, in North were also discovered by Dutch trade Cook discovered New South Wales as Bay, which was so called by Sir Jos the botanist of the expedition, from derful floral display which its plais In 1788, the first English colony wa New South Wales. The abo native population suggested to the government, embarrassed then as now all disposal of its convicted criminals, the part of forming a penal settlement in Accordingly, Capt. Phillip was deepe a squadron containing 850 convict strong military guard of 200 mea as to form a settlement. There was in every element of disorder and vice. were gathered together miscell out any pretence of selection. The The free men were soldiers; the w The free men were soldiers; the women party were in the proportion of I women of the convicts, and 40 women to military. The settlement was made any previous survey or knowledge of the try, in a spot either so barren that it we pable of supporting life, or else cover the heaviest and hardest timber. I colony, from its position, and want porting power, must be entirely de-the arrival of stores and rations for after the precarious chances of a voyage. By letters patent the go-made an absolute despot over the property of the colonists, and full granted him over the lands. Terrib consequences of this grievous miss Oppre and criminal carelessness, authority, debased brutality in the authority, debased brutality in the norrible cruelty of ufficials, were course of colonial life. Famine ven among the free men, while the ife so cheep that murder would but any time for 2 or 3 days' ration 3 ov. Phillip resigned, and in 1705 was sent out. A few free settle crived, who were assisted in the heir lands by grants of convict laber, King superseded Gov. How rov. King supersoded Gov. Hu he "Sydney Gazetteer and New Advertisor," a semi-official paper by George Howe, a prisoner, he present colony of Victoria he present called the view of

formed a settlement in Van Land, on the Derwent river. During d it was that Matthew Flinders, and Bass, made their coast surveys, under ficulty of local discouragement; bad ited crews, and bad vessels. The laccuracy of these surveys have reindisturbed to the present time, alinders published them at his own cost, in neglect and poverty. In 1806 Gov. e Bligh of the Bounty, was sent ras a good seaman, but of rude mantyrannical temper. He came into put down the monopoly of spirits, the civil and military officials were interested, and the abuse of which m rich at the cost of the colony, which ped in intemperance. In fact, rum me the ordinary currency of the day.

k his measures neither well nor wisely. ed Mr. McArthur, a free settler, and importer of the merino sheep to Aus-a charge of treason. The governor a charge of treason. The governor as unpopular in the colony as he had the quarterdeck of the Bounty. Mr. was generally liked, the officials e opportunity of defending their moderates and a military runting of spirits, and a military mutiny of South Wales regiment was the conse-Gov. Bligh was deposed and put on own ship, the Porpoise, and sent England. However wrong Bligh was de of procedure, the government could ort this breach of discipline. Col. and his officers were broken and the disbanded, and Col. Macquarie, a man and intellect, was sent out to reigh for 24 hours, and then to take the the colony himself. He arrived in for 12 years administered the colonial nt, and to him was mainly owing the general government which converted ent of reprobates into a God-fearing abiding commonwealth, and which the advent of that great future to astralia is destined. At his arrival he convicts in a state of slavery to the sists and to the government officials. thed this state of things, and while the convicts, gave them the oppor-recovering position in life; and how-results of this course might and did parallel between the disadvantages poverty at home compared with the prosperity of reclaimed felonry abroad, is that to his policy is due Australian ent. Under Gov. Macquarie the Blue s were first crossed and the Bathurst covered, over which the governor with mergy at once planned and constructed ent road. He improved the condition wicts; regenerated the moral tone of y; effected local improvements; pro-imigration, and placed the adminis-faffairs on a sound basis. His wife niable and accomplished woman, and was of the greatest assistance in these social reforms. Gov. Macquarie was impatient, however, of all control, and his remonstrances against all administrative checks on his action prevented, during his governorship, the establishment of a legislative council. In 1821 lishment of a legislative council. In 1821 Gov. Macquarie returned to Bugland, and was succeeded by Sir Thomas Brisbane, and under his government a council, composed of the principal officials, was given to the colony, and in 1824 "The Australian," the first independent colonial newspaper, was published. Sir Thomas Brisbane continued in authority until 1825, when he was recalled in consequence of the complaints against the well-meaning blunders of his administration. During Sir Thomas Brisbane's term the Maneroo plains were discovered, as also the river Brisbane; and the Port Phillip district (Victoria) was brought to the public notice by Messrs. Hovell and Hume. At the period of Sir Ralph Darling, his successor's appointment, there was no trial by jury in New South Wales, but in 1829 trial by jury in iril actions was granted. In 1821 Gasen Sir civil actions was granted. In 1831 General Sir Richard Bourke took the reins of government, and was by far the ablest and most liberal of and was by far the ablest and most liberal of the Australian governors. He framed the in-troduction of liberal principles of government, and aided considerably in elevating the tone of the legislative council. In 1838 he was suc-ceeded by Sir George Gipps, whose life was spent in constant dissensions with the colonists, and the general tone of whose government, though liberal in theory, was opposite to that of Sir Richard Bourke. To Sir George Gipps of Sir Richard Bourke. To Sir George Gipps succeeded Governor Sir Charles Fitzroy, whose principal merit in the eyes of the colonists is that he does not over-govern them. The Colony of Victoria, which was formerly the district of Port Phillip and a dependency of the district of Port Philip and a dependency of the New South Wales government, was originally settled by colonists who crossed from Van Diemen's Land and squatted. The land had been previously twice abandoned. Vain efforts were made by the colonial office to limit the spread of emigration, and they prohibited the oc-cupation of Port Phillip. But governments are always in the rear of popular sentiment; that which the ministers deprecated had already been accomplished. The colonists of Van Diemen's Land, hearing of the rich unoccupied pas-tures of Port Phillip, rushed over with their flocks and herds to seize on the prize. In 1837 Sir Richard Bourke laid the foundation of Melbourne on the banks of the Yarra-Yarra, and impressed by the immense agricultural value of Australia Felix, directed land sales. The rush to Port Phillip continued, and land brought incredible prices. The speculation was maintained at fever heat until the crash of 1842 brought down prices, and the colony was just recovering from the distress and ruin of that period, when in 1850 the discovery of gold at Ballarat was an-nounced. Port Phillip continued a district of New South Wales until 1851, when the new act of the imperial legislature came into force,

ests of Australia that we feel it to give a brief account of them. ing capital and population to find their own level, Mr. Wakefield considered it practicable to ernor Phillips's first arrival, free astil dam up the stream of emigration by artificial prices of land, and to concentrate labor for the special behoof of capitalists. The delusions on In 1821 there were 23,35 but slowly. In 1821 there were 23.56 tlers and 13,814 convicts, with 5,000 to 000 cattle, and 350,000 sheep. The past which these schemes were based were plausible enough in the first instance, and secured nu-merous and influential supporters, but experitransportation was really terrible at the but after a more humane and civilize ence has shown the fallacy of the system. A factitious success and a sudden emigration, kept ment had been established, the proing a place in society, and even of acquierty by means of land grants, strips portation of some of its horrors; and up by flattering accounts at home, elevated the new colony of South Australia to the summit of new colony of South Australia to the suminit of prosperity, during which, without exports and without local productions, all parties were living on capital. Land and town lots speculation as usual ruled the community, until the dream of bliss was rudely dispelled by general bankruptcy. Adelaide is on the banks of a swamp at the head of the gulf of St. Vincent; it was founded in 1836. The port is about 6 miles form the town. The total failure of the land practice of assigning convicts to fre for compulsory labor was understood land, the plan suggested itself to fr relatives at home to make their wa founded in 1836. The port is about a minimum the town. The total failure of the land Wakefield party was in some measure compensated by the sale of lands round Adelaide in 80 acre sections, which after the land speculations had blown up, proved after the land speculations had brown up, provide the salvation of the colony by keeping together a band of independent cultivators attached to the freehold. But for these the colony would have been ruined. These sons of the soil kept the colony alive, and the discovery of the great Burra-Burra copper mines, which were so productive that the stock soon rose to a great value, helped to restore the colony of South Australia On the gold discovery in the neighboring colony, a rush of labor took place to the gold diggings. The Burra-Burra mines were deserted, no ore chance of was sent home, and the stock, principally held in England, fell far below par. Again the colony was at the brink of ruin, when the 80 acre farms saved it a second time. Sir Henry

Young, the governor, quickly laid out a road to the diggings, which was completed, wells dug, stations erected, and gold escort organized, and thereby gold, the earnings of the Adelaide small

of their friends, to still further allers portation. By this and other device as by the legitimate course of ind good conduct, many of the coavic course of time came to be leading uals in the colony. They held lar they monopolized all the spirit at were leading merchants and capits though a line of demarcation early in colonial society between the "the "free," it could not be denied convicts were emineutly respectable social relations; while on change, a mart, the convict's signature carrie weight as that of the freeman. I portation came to be considered a it was no unusual thing for criminal transportation. They naturally a house of obtaining the first transportation. obtaining the fat earth in the southern hemisphere, the drawback of never setting for England, to the confinement of home out any set off of good whatever, was now made in the transports It was decided by the English governsportation should be so limits the worst characters should be a

leave.

The future of such individuals was de-

ne free settlers as to threaten to migration altogether. Escapes, notwithstanding the vigilance ties, and the runaways, concealin the woods and joining with ried on organized depredations ide-apart homesteads and resisettlers, in which they were the from the knowledge that their lercy on recapture were zero, this evil was so great that the New South Wales and Van

l organized an anti-transportawhich many of those who once convict class were enrolled as e measures of the league were at in 1837 an order in council olishing transportation to New and confining it to Van Diemen's owever, was far from satisfying By a stroke of the pen Van l, one of the most delightful world, rather larger than Irecularly suited to European conto invalid officers of the Indian rerted into a huge jail. The es conferred on the island by the of labor, the construction of a roads, and other public imere in the judgment of all but flicials more than overbalanced deterioration of the social atsequent on the aggregation in narrow limits of so great a mass Nor were the evils complained

Nor were the evils complained ists of continental Australia remimitation of the convict establishment. Convicts the most infamous criminals, their punishment was 7, 14, 21.

Those transported for short

Those transported for short the expiration of their sentence, to where they pleased. Thus a charged convicts were annually ecolonies; and although many i themselves not to be irreclaimless, with the precaution taken nent at home, it could scarcely t such was the usual character convicts. Another measure oper, still worse. Philanthropists rious to hasten the reformation procured the adoption of the system, by which a convict, certain portion of his sentence ing punishment from the authornitided to a conditional discharge ainder of his sentence, subject recillance of the police. This the penalty of the law, while it to the really penitent, opened a isy and deception. Those who ging suppleness, succeed in object of the officials, or, by hyposobservances, secure the notice ns, were sure of their ticket of

termined by circumstances. The energetic re-monstrances, and the fierce invective and permonstrances, and the fierce invective and personality hurled at the colonial authorities favorable to transportation, reached its highest pitch during the time of the gold discovery, when it was computed that not less than 9,000 that of laws men were on the diggings. records of crime showed that the terrible outrages against life and property which were committed daily, both in town and country, were almost exclusively the work of convicts. Accordingly, the legislature of Victoria passes and the country of th an act authorizing the instant deportation of all ticket of leave men. The Van Diemen's Land ticket of leave men. The Van Diemen's Land authorities refused to cooperate, and expressly sanctioned the further issue of tickets of leave. Acts were now passed in Victoria making it penal for a ticket of leave man to be found in the gold colony, and throwing the onus of disproof of the charge on the accused. This clearly unconstitutional act was disallowed by the Reitigh government. But a collision here the British government. But a collision be the British government. But a collision between the colonies having become imminent, transportation to Van Diemen's Land was discontinued from 1853.—The land system of Australia differed totally from that adopted in the United States or Canada. In the early days of the colony all the government lands were disposed of by grant from the crown. Military men and officials received extensive grants. Free laboring settlers, in proportion to their means and the number of their family. to their means and the number of their family, received grants limited to a few hundred acres. Discharged convicts received small grants to enable them to support themselves. As the colony progressed the lands became slightly colony progressed the lands became signly enhanced in value, and parties having influence applied for grants, which were freely issued by ministers, although, in the hands of the grantees, they were for the time useless. In time, however, and with the accounts of the large fortunes made from wool and tallow, Australian lands came to be viewed as of more impor-tance. Grants were discontinued and purchase adopted, although in the case of the Australian land company, which was organized with great promises of improved breeds of animals, of exporting emigrants, and of introducing scientific agriculture, a million of acres was granted to agriculture, a million of acres was granted to them as a basis for their operations. The pub-lic lands announced for sale were put at a moderate upset price after survey, and in quantities likely to suit purchasers. But the capitalists and great wool-growing squatters of Australia thought that the creation of a class of independent settlers was prejudicial to their interests. It heightened the price of labor. Representations as to the importance of the interests involved, the general unsuitableness of the country for agricultural purposes, and its admirable adaptation for pastoral purposes, were made with such effect at home that the Wakefield system of colonization was adopted. New land regulations were issued. The upset price of the land was greatly increased, placing

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purchase beyond the means of poor men. Squatting was converted into a legal tenure. Immense sections of land were let out to the Immense graziers at a rent proportioned to the number of cattle or sheep they were presumed capable of sustaining. The rent itself being ridiculousof sustaining. The rent itself being ridiculously low, was still further lessened by being settled in friendly conclave with local officials. In addition to this valuable privilege, a preemptive right was conceded to the squatter, by which he had a right of purchasing a block of land out of his own run at the upset price, free of all competition, which was in effect shutting out rivals from his whole claim. The next regulation was that any person sufficiently wealthy to purchase a whole tract of land, not less than 5 000 against might call on the grown. less than 5,000 acres, might call on the government for a special survey, and pay his purchase money at the upset price. Finally, all moneys thus expended in the purchase of colonial lands were not to be expended in the advancement of general colonial interests, such as public works or local improvements; but in the pro-curing of emigrants fitted, by their habits of life, for agricultural and pastoral occupations, Thus it was hoped to secure a full supply of laborers for the sheep-farming capitalists, and at the same time to favor "a class of emigrants who would not be debarred by an upset of who would not be departed by an upset of price of £1 per acre, so that the land which was not adapted for a class of small but inde-pendent farms, might fall into the hands of a landed aristocracy, who possessing the frontages to water, might possess capital sufficient to guard the land against the vicissitudes of the season, as well as to cultivate the interior with advantage." The thorough unsoundness of this system, which was the offspring of Lord Grey's colonial policy, and its tendency to sacrifice the many to the few, was thoroughly developed, and in 1853, under the liberal colonial policy of the duke of Newcastle, the control of the land revenues was abandoned to the of the land revenues was abandoned to the colonies, a free constitution granted, and the work of colonization is now allowed to take its natural course.—The gold discovery is the great event of the Australian colonies. The first announcement of it was made in the Bathurst district of New South Wales, by a gentleman returned from California, Mr. Hargreaves.

As a mineralogical fact, it was known long before in the colonies and to the home governfore in the colonies and to the home govern-ment. Count Strzelecki had announced it, and ment. Count Strzelecki had announced it, and Sir Roderic Murchison, examining a piece of Australian quartz, had inferred it from his knowledge of the gold washings in the Ural mountains. The discovery of gold in quantities on the Turon river, in South Wales, in 1850, drew a number of diggers to that district. In the latter end of 1850, however, diggings of far greater value were discovered in Victoria, and then commenced an indux of immigrants which as in the case of California, produced reas in the case of California, produced re that set all foresight and calcul n at flance. The Port Phillip thow of the colony of Victoria) has w tmow called

to the Sydney colony 18 years before as we have seen, had, at a still on riod in the history of the colonies, bee riod in the history or the control and doned by Collins; and again, after a se government survey, had been worthless. This despised district come the cynosure of the whole we 1850, the population of the country was In a year after the discovery of the gings it rose to 250,000, notwithstan distance from Europe and the expensions voyage. Ordinary business of all ki momentarily suspended. The land of was, for that year, almost abandoned, of the fascinating pursuit of a more goi vest, in which, at the outset, all seems prizes. Every article of food and doth imported from Europe, and labor and will be advanced to relies to which the dise advanced to prices to which then to be no probability of a limit. If to be no probability of a family at the brought about a settlement of public at their ordinary channel, and Victoria has pect of a settled and highly prosperous. In 1856 there were estimated to be laborers in its mines; which it we always for that number to archange. years for that number to exhaust. So Wales, and its capital, Sydney, has be somewhat apart from the feverish on of the gold fields, and while sharing in eral flood of prosperity, has maintained of calm well-being, pleasantly contrast the excitable nature of Melbourne tralian commerce now deals with the staples of gold, wool, and tallow, to wh be added the copper of South Australiang the year 1857, so much land a brought under cultivation, and the fat the soil has so well repaid the labor. it, that a cargo of wheat has been shi the London market. The colonial man are of course few. In the present pe the colonies, importation from East more profitable. A light cloth, know amatta cloth, is made at Sydney. numerous tan and leather works in the Paper mills are established; extensive ies and machine shops are in open however, import all their iron. however, import all their iron.—
of Australia, by the census of
round numbers, 1,043,000; in 1
lation of N. S. Wales was 157,24
toria about 50,000. In 1852, th
Victoria was 250,000; in Sept.
in 1857, 414,000. The revenue
New South Wales, in 1850, was
ling. The present revenue of Vi
ceeds £3,000,000.—The imports
the year ending Sept. 30, 1856,
336; exports £12,547,394. The p
same period was about \$20,000,
parts would be at the rate of £31
revenue for the same period was
which £1,007,854 were customed thich £1,607,854 were cu

l. The gold in 1856, up to Dec. 1, was z, valued at £14,134,108. To Dec. he amount imported into England he amount imported into England 26,000. The increase has been 1854 the gold yield was £8,770,-1855, £11,856,292.—Religion and tre well provided for in the varise. In the early days clergymen ly chaplains to the great jail systrafficked in spirits; were the semasters, unsparing in punishment, ghone or two honored exceptions to way to heaven, the clergy only the miseries of life, instead of allevisues of the control of the semasters. Subsequently an act was passed pport of Episcopal churches and which the enormous proportion of of the crown lands was to be deis was unsatisfactory and intolerant; chard Bourke had the merit of reg to the home government, and of the system of universal toleration, I denominations of Christians were aid in building places of worship, stipend for their ministers. Sir arke also endeavored to introduce a peral plan of educational establish-in this he was opposed by the id accordingly the schools were the various congregations, and the gave such assistance as might at. Earnest efforts were made to state of affairs, in which education necessarily imperfect. Local com-re appointed, but until the divi-colonies the utmost that could be be establishment of a normal school called Irish principle, substantially as that practised in the United as 1851, however, there has been onal board; and a regular systemment grants, both for religious ional purposes, has been organized, ever, at this present time, is still a sion, one of the election tests, the wit also to receive state support for ters, if on the terms of allowing set to the ministers of other forms ne faith. There is a university one also in Melbourne.—The rail-ablic works of Australia, except in n's Land, are very imperfect. Previisoovery of the gold, there was not tal to be employed in joint stock and the tardy increase of the popu-ot justify the home government in the country by a system of cheap Since 1851, however, some progress ction has been made. Some years me of grand dimensions had been l, for connecting Sydney with Ade-

ans of a railway, but at the end of or 10 miles the great Australian and its terminus. Now, however, ans have managed to construct a

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railway of 50 miles, which is about being opened between Melbourne and Geelong. Throughout the whole country the means of internal communication are of the most primitive description. Pack horses are employed, while the heavy traffic is done, from one end of Australia to the other, as in South Africa, by bullock drays, with teams of 8 or 10 bullocks, progressing at the rate of a mile and a half per hour.

AUSTRIA in Correct Organization of Correct and the state of the AUSTRIA, in German OESTREION OF OESTER-BEION (eastern empire), the collective designa-tion of several states of central Europe, comprising at least 4 distinct nationalities, all under the rule of the dynasty of Hapsburg. the rule of the dynasty of Hapsburg. These states having been acquired by the reigning dynasty at different times, under different circumstances and conditions, have, until very recently, preserved their distinct social and political individuality. It is only since the accession to the throne of the emperor Francis Joseph that the work of union and centralization has been carried on upon broad principles and with apparent success. The total area of the Austrian empire is 256.559 so, miles extendwith apparent success. The total area of the Austrian empire is 256,559 sq. miles, extending from lat. 42° to 51° N., and from long. 8° 80′ to 26° 30′ E. Its population, according to the census taken in 1854, amounted to 89,411,309. It is bounded W. by Switzerland and Bavaria, N. by Saxony and Russian Poland. E. by Russia and the Danubian principalities, S. by Turkey, the Adriatic sea, the Papal States, Parma, Modena, and Sardinia. The Austrian empire, unlike its more immediate rival, Prushipira, and Sardinia. sia, is a continuous territory, only 2 districts (Cattaro and Ragusa) being separated from the main body by small strips of Turkish territory. The 21 states or provinces (*Kronlander* or crownlands), which, according to the reorganizing statutes of 1849 and 1851, constitute the izing statutes of 1849 and 1851, constitute the united Austrian monarchy (Oestreichische Gesammtmonarchie), are the following: 1, the archduchy of Upper Austria (Oestreich ob der Ens), 4,616 sq. miles, pop. 755,250; 2, the archduchy of Lower Austria (Oestreich unter der Ens), 7,633 sq. m., pop. 1,714,608; 8, the duchy of Saltzburg, 2,764 sq. m., pop. 154,379; 4, the duchy of Styria (Steyermark), 8,664 sq. m., pop. 1,095,078; 5, the duchy of Carinthia (Kaernthen), 8,984 sq. m., pop. 846,150; 6, the duchy of Carniola (Krain), 3,845 sq. m., pop. 505,886; 7, the counties of Goertz and Gradiska, the margraviate of Istria, and the district of Trieste, 3,065 sq. m., pop. 613,056 (the 8 lastnamed provinces form the kingdom of Illyria); 8, the county of Tyrol, 11,084 sq. m., pop.

named provinces form the kingdom of Illyria); 8, the county of Tyrol, 11,084 sq. m., pop. 925,066; 9, the margraviate of Moravia (Machren), 8,560 sq. m., pop. 1,972,165; 10, the kingdom of Bohemia (Bochmen), 20,012 sq. m., pop. 4,800,818; 11, the duchy of Silesia (Schlesien), 1,983 sq. m., pop. 479,321 (these 11 states, comprising 76,210 square miles and 13,861,777 inhabitants, about 1 of the whole empire, are members of the German confederation, and entitle the Austrian emperor to 4 out of 70 votes in the German diet or

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of the sea.

Bundestag); 12, the kingdom of Galicia, including the former republic of Cracow (annexed by Austria in 1846), and the duchies of Zator and Auschwitz, both of which belong to the German confederation, 80,115 sq. m., pop. 5,056,647; 18, the duchy of Bukovina, 4,021 sq. m., pop. 430,664; 14, the kingdom of Dalmatia, 4,928 sq. m., pop. 482,337; 15, the kingdom of Lombardy, 8,313 sq. m., pop. 3,009,505; 16, the kingdom of Venice (Venedig), 9,198 sq. m., pop. 2,493,968; 17, the kingdom of Hungary (Ungarn), 69,170 sq. m., pop. 8,744,481; 18, the kingdom of Croatia and Slavonia, 7,054 sq. m., pop. 967,186; 19, the grand duchy of Transylvania (Siebenburgen), 23,078 sq. m., pop. 2,285,572; 20, the waiwodeship (principality) of Servia, 11,550 sq. m., pop. 1,574,428; 21, the Military Frontier (Militaergrenze), 12,-922 sq. m., pop. 1,054,794. According to the Bundestag); 12, the kingdom of Galicia, includ-922 sq. m., pop. 1,054,794. According to the previous census, taken in 1850 and 1851, the previous census, taken in 1850 and 1851, the population of several of the more important Austrian states was as follows: Lower Austria, 1,588,047; Upper Austria, 706,816; Saltzburg, 146,007; Styria, 1,006,971; Carinthia, 319,324; Carniola, 463,956; Bohemia, 4,409,900; Tyrol and Vorarlburg, 859,706; Moravia, 1,799,838; Dalmatia, 398,715; waiwode of Servia, with Temesvar, 1,426,222; Oroatia and Slavonia, 878,456; Transylvania, 2,073,787. Nearly three-fourths of the Austrian territory are mountainous. There are 3 principal chains of mountains, each of them serian territory are mountainous. Incre are principal chains of mountains, each of them sending off many branches, viz.: 1. The Alps (the Rhaetian or Tyrolese, the Noric, the Carinthian, the Julian or Carniolan, the Dinaric Alps), extending from the Bernardin to the Danube, and covering almost the entire southern belt of the German provinces, as well as Illuria and Dalmatia: their highest peaks as Illyria and Dalmatia; their highest peaks are: 1. In Tyrol the Ortles (12,811 feet), and the Gross Glockner (12,158 feet). 2. The Carpathians, 640 to 700 miles long, beginning at the confluence of the Danube and the Morava (March), arrowing in an arch to the confluence (March), sweeping in an arch to the confluence of the Danube and Cserna, and covering a territory of 85,000 sq. m. (the different sections of this chain are known as the Central Carpathians or Tetra magnetics in Hangare the Park thians or Tatra mountains in Hungary, the Lip-tauer Alps, Hungarian Switzerland, the Hun-garian ore mountains or Erzgelia ! garian ore mountains or Erzger kides, the lesser Carpathians or tains, the Waldgebirge or Fo Upper Hungary, the T bold and rugged grants on mear Lomnitz and Kroi more than 8,000 feet acces The Sudeto mountains, with the Bohemian forest and the tains (Erzgebirge of Saxony), an iterrupted chain of granite and gnession its sections are: the Moravian Si tains, the Moravian snow mountazer hills, the Giant moun the Iser mountains, the 1 The highest elevation in this us or Rie koppe, or snow peak, 4,

Beside these 3 great chair several parallel ranges of considerable Thus on both sides of the Alps then limestone ranges, the northern cost up to the height of 9,222 feet (the D or roof-peak on the boundary line of S and Styrin), while the southern ones re the height of 8,794 feet, cover nearly the territory of Illyria and Dalmatia. A Carpathians are surrounded by sandson tains, which almost fill up the term Transylvania. Of large plains there the great Hungarian basin, measuring \$60 miles N. and S. and 240 miles E. the basin of the Po in Lumbally and the basin of the Po, in Lombardy, and to of the Morava (the Marchfeld).—Thes of Austria extends from the mental to the S. point of Dalmatia, 1,169 miles tria belongs to 4 of the great river of Europe, those of the Black sea the la German ocean, and the Mediterranean. emptying into all of these seas rise is territory. Among the numerous structure (Donau) is by far the most im it is, in fact, the main artery of the empire, and may, at no very distanted come for southern Europe what the kins for the United States. The Dank the largest European river beside the enters Austria from Bavaria as a s igable at all seasons, but its channel recently, offered scrious impedimentation, most of which have been second moved within the last 10 years. were first introduced on the Dama Since 1835 the Austrian steam navi pany has increased their numb year, until, in 1857, it maintained 1031 and propellers, beside 330 barges. The entire length of the Danube 850 miles, its average width 600 fa age depth from 8 to 42 feet. Mos utaries are navigable for small craft has been introduced on several. Theiss, in Hungary, the most con them all, said also to have a greater of fish than any other European igated by steamboats from Tok ignted by steambour from Danube; its entire course has also The Save, which enter the Dagrade after a course of 40 miles several hundred miles. Steamh the Inn, and since 1857, even or smaller street of about 200 remptying into emptying into the Inn. tributaries of the Danab miles), the Exam (170 m. (320 m.), the (370 m.), the m.), the Leyting utary to the limits ed by ste only river which

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shows the same variety as the mineral.

within the Austrian empire in lakes of Austria are numerous, y large. The Platten, or Balaton Hungary, has a surface of about The Garda-lake in Lombardy, and from 5 to 14 miles wide, is ed on account of its beautiful irface is 213 feet above the level lepth 892 feet. The Lago Maglepth 892 feet. The Lago Mag-na-See (Long Lake), on the south-he Alps, 636 feet above the level vers an area of about 100 sq. m. ake in Austria is the Neusiedler stern part of Hungary, nearly 20 i from 5 to 7 miles wide. The ke, in Carniola, is remarkable as me 40 subterranean cavities, h its waters from time to time again flow in. Its surface meas-square miles.—The climate of erate and very wholesome. From oundary up to lat 46°, the average 541° F.; from lat, 46° to lat, 49°, l°; beyond lat, 49° it is 48° F. rery severe in the mountainous very severe in the mountainous adden changes of the temperature ıt.—Nature has endowed variety of productions than any in state. Platina excepted, all un state. in state. Platina excepted, all in Austria. Gold is produced in Iransylvania, where there are 40 lver and the best quality of Euin Hungary; quicksilver in Carat Idria used to vield 12,000 diver per annum); tin in BoheCarinthia; iron almost everymine on the Ore mountain in over 15,000 tons annually). Baover 15,000 tons annually). Beals the following are produced in ies: calamine and zinc (about 7,-lt(1,800 cwt.), arsenic (250 cwt.), m 6,000 to 8,000 cwt.), chrome, 1,000 cwt.), manganese. Black baster, serpentine, gypsum, black-nt, and marble, abound in many empire. The precious stones found : the Bohemian carbuncle, the l, chalcedony, ruby, emerald, jas-topaz, carnelian, chrysolite, beryl. Austria are considered almost Of rock-salt there is a bed several in length in Galicia, of which ortion is worked at the gigantic szka, a perfect subterranean city, ies, one below the other, extendnth of galleries, and hewn into 9,500 feet from N. to S., and E. to W. Of mineral springs, as upward of 1,600, of which the d are at Karlsbad, Marienbad ensbad, Saydschütz, Seidlitz, and emis; Ischl, in Upper Austria; rawant, in Lower Austria; Gas-rg; Gleichenberg and Rohitsch, shadis, in the military frontier vegetable kingdom of Austria

the staple produce of the German province and of Hungary; buckwheat is raised in the sandy regions; Indian corn, rice, and kidney beans, in Hungary and Lombardy. The finest varieties of apples and pears are raised in Bohemia, Austria proper, and Tyrol. Hungary produces immense quantities of cucumbers, metators are transported to the product of th ons, watermelons, pepper, anise, licorice, poppies, chicory, sweet-flag, ginger, flax, hemp, and tobacco. Cotton is raised in Dalmatia, hops in Bohemia, saffron and woad in Lower Austria. The Hungarian wine (more than one-half of the The Hungarian wine (more than one-half of the entire wine product of Austria) is an excellent article, some brands being justly counted among the very best wines of the world (To-kay, Mada, Tallya, Menesch). About 76,000 square miles of the Austrian territory are covered with forests, mostly oak, pine, and hemlock, in the northern—maple, stone pine, olive, laurel, myrtle, and chestnut trees, in the southern provinces. Horses are raised everywhere, but only those of the Bukovina are of a supebut only those of the Bukovina are of a superior stock; horned cattle in Hungary and Galicia (buffaloes in Croatia and Transylvania); the finest sheep in Lombardy; goats and hogs in Hungary. The silkworm is reared on a large Hungary. The silkworm is reared on a large scale in the Italian provinces, and has recently been introduced in Tyrol, Croatia, Slavonia, Illyria, and Dalmatia. Game is plentiful; deer, wild boars, and hares being found almost everywhere; black bears, chamois, lynxes, wolves, and beavers, only in some districts. Oysters are found near Venice, pearl mussels are frequently found in several rivers and creeks of Hungary, as are also leeches.—According to the general census of 1851, Austria had 36,514,466 inhabitants (8,218,597 families), an increase, since 1816, of 32 per 1851, Austria had 36,514,466 inhabitants (8,218,-597 families), an increase, since 1816, of 32 per cent., and of 14 per cent. since 1826. They live in 864 cities, 2,355 boroughs, and 64,883 villages. Of the cities one (Vienna) has upward of 400,000 inhabitants; 3 (Milan, Prague, and Venice) have more than 100,000; 5 above 40,000; 7 above 80,000; 11 above 20,000; and 35 above 10,000. Of the whole number (according to the statistical tables of 1846, the latest accessible accounts), 15,282,196, or 403 per cent., belong to the Slavic races, which latest accessible accounts), 15,282,196, or 403 per cent., belong to the Slavic races, which constitute the bulk of the population in Bohemia, constitute the bulk of the population in Bohemia, Moravia, Carniola, Dalmatia, Croatia, Slavonia, the Military Frontier, the Waiwodeship, northern Hungary, and Galicia. The Germans number 7,917,195, or 21 per cent., in Austria proper, Saltzburg, Tyrol, Styria, Oarinthia, western Hungary, Transylvania, Bohemia, and Moravia. The Roman races, numbering 8,102,463, or 211 per cent. (5,060,877 Italians, 401,094 Friulians, 2,640,492 Wallachs), inhabit the Italian provinces, southern Tyrol, the Littorale, and Dalmatia, Transylvania, parts of Hungary, Bukovina, inces, southern Tyrol, the Littorale, and Dalmatia, Transylvania, parts of Hungary, Bukovina, and the military frontier. The total number of Magyars is given as 5,418,778, not quite 15 per cent. The remaining 2 per cent. consist of Jews (600,000), Armenians (12,000), Greeks (18,000), and Gypsies (100,000). The Slavio race, although the most numerous, is not the

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ruling element, being split into at least 7 principal nationalities (5,897,970 Czechs or Bohemians, 3,150,598 Ruthenes, 2,183,880 Poles, 1,153,382 Slovenes, 1,288,682 Croatians, 1,584,-134 Servians, 24,100 Bulgarians). The Germans, though but ith of the entire population, are the ruling race, not merely on account of the na-tionality of the reigning dynasty, but because German intellectual culture and industry prevail in all the different states, the Italian provinces only excepted. The number of languages or different dialects spoken in Austria exceeds 20, but German is the official language. It is a significant fact that at a Panslavic congress held Prague in 1848, the delegates of the different Slavic nationalities found themselves under the necessity of using the German language, being unable to understand the different dialects of their own tongue. The density of population is very unequal, but is generally greater in the castern than in the western portions of the empire. The extremes are Lombardy (827 to empire. The extremes are Lombardy (327 to the sq. m.) and Saltzburg (58 to the sq. mile). Three-fourths (27,400,000) of the entire population of Austria profess the Roman Catholic religion; the members of the Greek Catholic church are estimated at 6½ millions, of whom 8½ millions belong to the Greek United church; the Reformed (Protestarts) church has 8 200 000 the Reformed (Protestant) church has 2,280,000 professors; the Lutheran church 1,270,000, the Unitarian 46,000. The Roman Catholic church in Austria has 13 archbishoprics and 70 bishoprics. The archbishops of the Greek church reside at Lemberg, in Galicia, and Ofen, in Hungary I 1843, the number of Roman Catholic gary. In 1842, the number of Roman Catholic monasteries in Austria was 766, containing 10,854 monks; that of the numeries 157, containing 3,661 nuns. By the concordat with the Holy See, concluded in September, 1855, the Roman Catholic church in Austria has become a power entirely independent of the temporal government. By this treaty the plucitum regium has been abolished, thus rendering all decrees and ordinances of the pope valid and binding for the Catholics of Austria, without previous sanction of the government. The bishops are empowered to prohibit all books which they may deem | nicious or injurious to which they may deem | the interests of the chur : they | fuli ole; control over the public s ish clergymen and lay rules and regulati establish any numon short, all the limitations costablished by Joseph II. he moved, and Austria has been the leading Catholic power in sum same time promises have been Protestant churches of a more libe tion, allowing them a certain degree government, but as yet they have not be ized.—Public education has been in of thorough reorganiza number of common or been steadily increased, nearly 26,000, or one for e

Reading, writing, ciphering, religion, are taught in the common schools schools have also been introduced. 1,560,000 children out of 2,575,000, w common schools, and 640,000 to the schools; but at the present time the prise undoubtedly much greater. A despromulgated Aug. 18, 1855, compelling to send their children to some schools. According to the report of 1851, th that time, in Austria, 262 colleges (Gas 88 schools for technical sciences (Basis 12 agricultural colleges, 8 mining sch academies of midwifery, 10 universi Vienna, Prague, Pesth, Lemberg Pavi Innsbruck, Gratz, Olmutz, and Cracow) emies for technical sciences, 5 mining ricultural academies, and 9 academ gery. In this statement private at theological seminaries, boarding-sche are not included. Since 1852, the di ence of the Jesuits on public education steadily on the increase; since 1857, begun to hold "missions" (revivals in 1859. The military schools were not also the steady of the steady in 1852. There are now 12 militar schools, 12 military colleges, 4 institu the training of cadets, 4 military acad 4 establishments of a still higher or sponding to universities. Institute promotion of higher scientific and s ture are numerous. The largest of libraries are the imperial library at Vibering 350,060 volumes; the univer at Vienna, containing upward of 131 the Ambrosian library at Milan (70 the university libraries at Pesth (160 and Prague (100,000 vols.); the II at Vienna (70,000 vols.). There museums, cabinets of science and s of paintings, &c., in the principa the empire. Several splendid colline. to the public. Of botanical gards altogether 28, of observatories 9 Milan, Padua, Gratz, Ofen, Prague Eilau, and Kremmunster. of Austria is scarcely to be es means of public instruction, we the most essential requisite, 1848, the most rigorous commany thing like a well-regulat sheer impossibility. During 1848, these restraints were re newspapers sprung up like so a But this unrestrained liberty of vary short duration. On No Jellinsek, the editor of the E me, was shot by order of Prim and that was the end of the lib Since that time a in Amstria. ulation of the press has be giving the police absolute of

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h Austria 98 political papers, and 267 non-political. Of the former, 58 are printed in the derman langer, 5 in Czech (the Bohemian daled), 2 in Servian, 1 in Croatian, 1 in Illyman 1 in Ruthenian, 19 in Italian, 8 in Hungarin, 2 in Roumanian, 1 in Greek; of the latter, 135 in German, 21 in the Slavian languages, 3 in Italian, 20 in Hungarian, 1 in French, and in Russian. Some of the large daily papers which in Vienna and Trieste (Oestreichische Donau, Ostdeutsche Post, Triester 1 in Austrian literature has no separate existence from that of the Carlo Carlo Chillips has no separate existence from that of the may be mentioued, that many of the best durans (Ladislaus Pyrker, Anastasius Grün Auersperg, Nicolaus Lenau, Von Hammergstall &c.). Hungary has its own distinct enture.—Austria has a great number of existe institutions of charity, such as hospitals, rolan asylums, almshouses, &c. In 1849, the number of public hospitals in Austria (Hungary Hadad), was 530, that of military hospitals maker of public hospitals in Austria (Hungary meladed), was 530, that of military hospitals 53, of lunatic asylums there were 40, lying-in stablishments 40, foundling hospitals 33, institutions for the sustenance of old and indigent persons 1,351, poor houses 7,173. The number of foundlings provided for by the government foundlings provided for by the government acceds 20,000. The hospitals of Vienna, established by Joseph II., are of the size of a small of the size of the size of a small of the size of the size of the size of a small of the size of the size of a small of the size of the size of a small of the size of the size of a small of the size of a small of the size of the size of a small of the size of the size of a small of the size of the size of a small of the size of the size of a small of the size of the size of the size of the size of a small of the size of are relieved annually, without distinction of creed or nationality. Vaccination is enjoined by the government. Every provincial capital has an imperial loan office for the poor, the ground of the almshouse department.—The total value of the almshouse department.—The total value of the almshouse department.—The total value of the mineral produce of Austria in 1851, was set down at 119,664,781 florins (the florin is equal to 49 cents). Of this sum, nearly one-half (53,194,942) was the value of the salt produced, 40,000,000 that of stones, clay, meerschaums, etc., and 26,469,839 that of metals. The annual yield of the gold mines is estimated to 000 or (Transtlyania alone yielding from at 60,000 oz. (Transylvania alone yielding from 24,000 to 30,000 oz.), that of the silver mines at 1,300,000 oz., of copper at 4,000 tons, of lead more than 6,000 tons. The total quantity of salt produced in 1850 was 6,000,406 cwt., of which 3,224,756 cwt. was rock salt, 2,340,874 cwt. spring salt, and 484,776 cwt. sea salt. The production of iron and coal. The latest statistice, published in 1857, show the following re-

Anstria produced Raw or Pig Iron. Cast Iron.
In 1839. ... 1,497,896 cwt. 151,687 cwt.
1550. ... 3,247,064 " 498,704 "
1553. ... 3,945,203 " 556,005 "
1564. ... 4,151,505 " 582,446 "

Still the product is not yet equal to the demand, although the time seems to be near at hand when Austria will be entirely independent of

England. Already all rails laid on Austrian railroads are of home manufacture, and actual railroads are of home manufacture, and actual experience has proved them far more durable than English rails. The coal produced in Austria, which in 1838 netted only some 4,000,000 owt., reached, in 1854 and 1855, full 30,000,000, having increased at least 600 per cent. in 17 years. But, nevertheless, the iron and coal production of Austria is only in its beginning. Agriculture in Austria shows very diffei characteristics in the several provinces of the empire, not only on account of the different climate, soil, and traditionary customs of the people, but especially on account of different laws and institutions. Thus, for instance, the Thus, for instance, the Italian provinces have for centuries enjoyed the benefit of sagacious legislation on the use of streams and water power for the purpose of irrigation. In Hungary the commassation or com-bined working of all the farming lands belong-ing to the proprietor is being carried on, afford-ing a substantial basis for rational culture of the soil, which, as yet, is wanting in other provinces. In some of the provinces the dismemberment of farming estates is prohibited by law, in others not. In Italy, farming is mostly carried on by "colonists," or tenants who pay from one-half to two-thirds of the proceeds to the proprietor of the soil, while in Croatia there prevails a sort of communism, a number of families cultivating a common estate and dividing the profits. the mountainous regions the farms are for most part small but well cultivated, while Hungary boasts of gigantic estates comprising many square miles. Taking into account these general square miles. 18king into account may, as re-characteristics, the Austrian empire may, as re-gards its agriculture, be divided into 4 sec-tions: 1, the Alpine countries: Austria proper, Saltzburg, Tyrol, Carniola, Carinthia and Styria; Satizourg, 1 yrol, Carniola, Carnthia and Styria; 2, the eastern provinces: Hungary, Croatia, Slavonia, the Military frontier, and Transylvania; 3, the northern provinces: Moravia, Bohemia, Galicia, Bukovina; 4, the southern provinces: Lombardy, Venice, and Dalmatia. In the Alpine countries, the area of the productive soil is 24,446,000 acres, of which 15,818,000 are woodland and pasture, while only 8,628,000 remain for agriculture and meadow land. The density of the population compels the farmer to density of the population compels the farmer to till even the steepest hill sides. The narrow plains yield potatoes, barley for brewing, and fodder; on the sunny sides of the mountains the grape vine is cultivated extensively. production of bread stuffs in these countries is not equal to the consumption. The agricultural not equal to the consumption. The agricultural condition of those portions of the eastern provinces covered by the Carpathian mountains is similar to that of the Alpine countries. But the scanty proceeds of these territories are largely made up by the surplus of the level country, which, with very few exceptions, is of extraordinary fertility, especially in the river bottoms. Of an aggregate of 67,586,000 acres of productive soil, less than 31,636,000 is covered by forests, and 21,500,000 by pasture; the remaining 35,950,000 acres are cultivated, but not equal to the consumption.

a large proportion of the pasture land is entirely capable of cultivation, and would be put under plough but for want of labor. Even now these countries produce upward of 192,000,000 bushels of bread stuffs, nearly one-half of the entire produce of the empire (477,000,000 bushels). The most fertile regions although thinly populate. most fertile regions, although thinly populated, produce a large surplus for exportation to the Alpine countries. The extensive pastures are used for cattle raising. Draught cattle are are used for cattle raising. Draught cattle are exported to nearly all adjoining regions; beef cattle mostly to the Alpine provinces. The wool preduct, although diminished somewhat by the recent partition of the common pas-tures, exceeded 260,000 cwt. in 1851. Hog fattening is carried on upon a very large scale. The Hungarian wine and tobacco are noted for their excellent quality. The east-ern provinces produce about 500,000,000 galls. wine per annum, part of which is export-ed to the other provinces and to foreign coun-tries. In the northern provinces but few places are adapted to the culture of the grape. The influence of the northern climate is here felt everywhere. Moravia, belonging to the basin Moravia, belonging to the basin be, has some large and fertile of the Danube, has some large and fertile plains, but Bohemia is hilly to a great extent, Bilesia entirely so, while Galicia, descending as it does from the Carpathians to the courses of the course the large streams, shows every variety of for-mation. Grain and potatoes are the staple pro-duce of these countries, supplying the domestic demand. Breweries, distilleries, and beet sugar factories, are numerous in these provinces. entire number of beet sugar establishments, in 1853, was 128. The area of the productive soil is 37,388,000 acres, of which upward of 23,008,000 are arable or meadow lands, and 14,380,000 forests and pasture. In the Italian provinces higher temperature calls forth a rich vegetation, and the cultivation of the soil is arried on so carefully that the plains appear like vast gardens. The productive soil of these provinces is nearly 12,942,000 acres, of which but 2,157,000 acres are covered by forests, and 8,451,200 acres are pasture. In the hill country Indian corn is the staple product, mulberry trees are planted in the fields, and grape vines climb from tree to tree. On the plains a o slete system of irrigation has been in Thus, in Lombardy alone, 1. are irrigated by 51 main chan irrigated this way (some 7,000 times a year, and some in the lan nine times a year. The Milan and Venice is excellent quantity nearly one-half of the duct of Austria. Thus, they proved is but 2,000,000 cwt. The quantity produced per annum is about 120,000,000 cwt. that of raw silk, 447,000 cwt., while provinces produce only 44,0 the area of the productive is empire is 142,362,000; 200 is woodland and p

arable and meadow land. The aggram of the agricultural produce of Austria a mated, in 1857, by Herr von Kleyla, a secretary of state, at 2,500,000,000 a. The product is that of Lombardy, viz., at in of the poorest province, Dalmatia, proper, Bohemia, Moravia, Styria, Ty Venice, severally produce about twelf the value of the produce of Lombards. the value of the produce of Lombardy; Croatia, Saltzburg, Carniola, Carinthia, H and the Military frontier, about one-Galicia, Transylvania, and Bukovis one-half.—The government of Fran has diligently endeavored to promote ture and cattle-breeding by agriculture exhibitions of improved agricult ments, by according premiums for i stock, by the introduction of new bra agriculture, and other measures. In spect, incessant attention has been per American improvements of agriculture ments and machinery. The culture ments and machinery. The culture American plants has also been in horses in Austria, in 1851, was 3,22 clusive of 75,000 cavalry horses; that cattle, 10,410,484; of sheep, frum 25, 30,000,000; of goats, 2,278,900; of swi 800.—The total value of the annua of agriculture and cattle-breeding i is estimated at \$1,500,000,000.—A ufactures, whose existence may be date only from the reign of Jose now striving to rival those of every ropean nation, England excepted. existence may l ber of manufacturing establishmesive of the small trades, has been 12,000, which is probably too high of hands employed by them at 2.5 value of their annual produce at 30 Of this sum, \$27,000,000 is the estion of the iron ware, \$27,500,000 that preparations, \$9,000,000 that of glassics (equal in quality to the \$1,000,000 that of pianos. Hemp and Hemp an in a raw state about \$26,000,000, tured into goods worth \$65,000,000, of the woollen fabrics is upward of (broadcloth \$22,000,000) roduces about \$30,000,000 p mber of cotton mills in Au 208, employing 29,153 persons; ber of persons employed in cotton ing, and printing establishments, the total value of cottan goods; 000,000. Of this sum \$10,000,000 dueted, being the value of the myars imported from England. I cotton manufactured in Austria times as large as in 1831. The tobecco is monopolized by the monopoly having been exten which formerly was excepted fro

The most important for com-

about 500 miles.

ucing (in 1849) over 50,000 cwt., ifth is exported, mainly to South e most numerous and extensive inishments are in Austria proper temia, and Lombardy, the least Dalmatia, and the Military fronre 4 principal centres of industry: e manufactory of all objects of usical instruments; Milan and lk goods; Moravia, Silesia, and linen and woollen textile fabrics; Styria and Carinthia, for iron lware. The government endeavther growth of Austrian industrial the growth of Austrian industry schools of mechanical arts, tradeial exhibitions, &c. In order to exhibitions, etc. In order to entors the patent laws were enlled in 1852, and in 1856 the w for the regulation of mechan-published, which, it appears, was gether too liberal by the tradess.—The commerce of Austria has, admilier received in the first content of the state of the adually grown into importance, led until 1850 by a prohibitory he political organization of the at that time merely a dynastic ent states, and rendering the prory lines so many barriers against ourse. At an early period the nment took care to spread a per-f excellent commercial roads over The high-roads of Austria, in aggregate length of more than The new roads over the Alps, th, the Splugen, the Semmering, justly counted among the most rks of modern times. The first many was built on Austrian ter-ting Budweis and Lintz (1832). 'erdinand's Northern R. R. (from rberg) was soon followed by the rberg) was soon followed by the . (from Vienna, via the Semmerto Trieste), the Northern R. R. to Prague), the Hungarian Cenna Marchegg to Pesth, and from breezin and Arad), the Northfrom Cracow to Lemberg), the R. (from Venice to Milan), the 10 R. R. Within the last 8 years a been incorporated for the constant. e been incorporated for the con-ilroads from Vienna to Lintz and ting with the Bavarian railroad the Saxon frontier to Brunn and Presburg, via Szolnok, to Szege-anizza to the Danube; from Sze-svar; from Raab, via Stuhlweis-infkirchen, Essegg, and Semlin; Canischa and Fünfkirchen; from adaphyra to Funfkirchen; from edenburg, to Funfkirchen; from arlsbad, to Eger; from Budweis graph lines have been construct-On Jan. 1, 1857, there ctions. a 5,185 miles of electro-magnetic h an aggregate length of wires s. Of canals there are altoustria, whose aggregate length is

merce is the emperor Francis's canal, connecting the Danube and Theiss, and saving a circuit of 220 miles. Among the numerous canals of Lombardy and Venice the Naviglio Grande, 37 miles long, from Ticino to Milan, and the Naviglio della Martisana, 28 miles long, uniting Milan to the lake of Como, deserve to be mention. an to the lake of Como, deserve to be mention-ed.—Every effort is being made to put the com-merce of Austria upon an equal footing with that of other continental nations. On July 1, 1851, the customs line between Austria proper and Hungary was abolished; on Feb. 1, 1852, a new tariff was published, by which the protective system was introduced in lieu of the previous prohibition, which was now limited to 3 articles of government monopoly, viz., salt, gunpowder, and tobacco. In 1852 the river duties on the Elbe, Po, and Danube, were abolished. A postal union having been concluded with most of the union having been concluded with most of the German states in 1850, was followed (in 1853) by a commercial treaty between Austria and the German Zollverein. On Aug. 9, 1852, perfect commercial reciprocity was established between Austria, Modena, and Parma. Commercial treaties have also been concluded by Austria with the United States, Moxico, Russia, Naples, Tuscany, Chili, Sardinia, Turkey, and Persia.—Among the large moneyed institutions the National bank of Vienna maintains the highest rank although its importance is much the National bank of Vienna maintains the highest rank, although its importance is much more due to its intimate connection with the financial administration of the empire than to its commercial transactions. A most powerful institution is the Austrian Lloyd, at Trieste, a joint-stock company established by Von Bruck in 1838, and unrivalled in the variety of its enterprise. It is divided into 8 sections: one de-It is divided into 8 sections: one devoted to the insurance business and the collec-tion of important statistics for the maritime tion of important statistics for the maritime trade, the second (established in 1837) to ocean-steamship navigation, the third (established in 1849) to the promotion of, literature and art. This company has gradually been developed into gigantic proportions, almost monopolizing the Levant trade on the eastern portion of the Mediterranean. It has established regular steamship lines between Triesta and almost every port on iterranean. It has established regular lines between Trieste and almost every port on lines between Trieste and Black seas. The the Adriatic, Ionian, and Black seas. The number of its steamships in 1853 was 56, but can now scarcely fall short of 70. Another great institution is the Danube steam navigation co., founded in 1835, which in 1857 maintained 102 steamboats, worth \$5,000,000, beside 380 freight boats. The first river steamboat in Europe built on the American pattern was built for this company in 1854. Early in 1856 the Credit-Anstalt, at Vienna, an imitation of the Paris Société de Credit Mobilier, went into operation, the subscription to its stock having reached the enormous amount of 640,000,000 florins, or upward of \$300,000,000, but the strong impulse given by this institution but the strong impulse given by this institution to speculation and stock-jobbing has already, at the beginning of the year 1857, led to a violent financial revulsion. The total value of the com-

mercial movement of Austria in 1856 and 1857 is shown in the following table, published in February, 1858:

1856.

1857.

bruary, 1858: 1856, 1857, Florina, 7 Florina, 1857, 1858, 1857, Florina, 1857, 1858, 1857, 1858, 1859,

Showing a decrease of imports in 1857, against 1856, of 7,498,380 florins, and a decrease of exports of 20,417,491 florins. The value of the contraband trade is roughly estimated at 40,000,000 florins. In 1850 the trade of Austria with the German states represented a value of 84,107,000 florins. The entire revenue from the customs was, in 1852, 22,904,000 florins; the revenue for three-quarters of 1856 (Jan. 1 to Sept. 30), 16,182,018. Altogether the revenue from customs is less than one-tenth of the entire revenue.—The increase of the shipping of Austria within 15 years is shown by the following table:

Veneta, Tom. Men.

Anstria had in 1841
5,574
215,598
4 4 1849
9,746
269,427
34,108
4 1855
9,83
346,659
4 Dec. 1856
10,006
80,469
4 86,902

Of these 657, carrying 238,973 tons, were ocean vessels; 68, carrying 39,083 tons, and 13,240 horse-power, steamships; 499 large coast vessels. The increase of ocean vessels from Dec. 1855 to Dec. 1856 was 23; that of steamships 10. In 1856 the maritime commerce of Trieste amounted to 230,000,000 florins, viz.: imports, 121,000,000, exports 109,000,000. Trieste is by far the most important seaport of Austria, and, beside Marseilles, perhaps the only one on the European continent which has advanced at a very remarkable rate. The time seems not to be distant when Trieste, as the commercial centre of the Mediterranean, will vie in splendor and greatness with Venice of old. Venice itself, which had become quite decrepid as a commercial city, has again revived somewhat since 1830, when it was declared a free port, but her trade and shipping are not more than about one-fourth of those of her more lucky rival. The port of Fiume is the main outlet of the Hungarian trade; that trade also resorts to Buccari, Buccarizza, Portone, and M. inschizza employing altogether 2.0 coverels.—The unit of the guiden, or florin, and know a know a constant of the guiden, or florin, and know a know a constant of the currency convention betwoend the currency convention betwoend the currency convention betwoend the other German states (16.4, A. coins also convention-dollars at 1; fl., and value to the German thaler. Gold of the ducat 4; fl., sovereign d'or 6; fl. un sovereign d'or 13; fl., Ven near fl. 82 kreutzers. The loter 14 fl., ven near fl. 82 kreutzers. The loter 15 fl. and floot is equal to 1.03713 foot and floot is equ

1 Vienna sq. foot=1.075638 American One ell=2.465 American feet, or 0.8 The Vention foot=1.1408 American for Austrian post-mile=4,000 klafter or \$4,000 klaft =1,600 sq. klafter=1.42233 America Venetian migliajo=0.74703 acre measure: 1 metsen=16 maanel or 36 (cups). One metzen=1.745405 bu measure: 1 maass (measure) = 4 seide = gallon; 1 eimer=40 mass. 9546 galls.; 1 beer-eimer=42] mass. 9546 galls.; 1 beer-eimer=42] mass. gallon; 1 eimer=40 mass; 1 wine 9040 gails, ; 1 beer-einer = 121 mass.
netian staja = 2.8644 galls. Weight: 1;
32 loth; 1 centner (cwt.) = 100 pounds
pounds avoirdupois or 150.04 pounds tw
in the United States. Silver weight: =2 marks; 1 mark=4831.019 troy gra Vienna marks=75.191 pounds troy Gold weight: The ducat as weight to 60 grains; 1 Vienna mark gold=80.4 Apothecaries' weight, 1 pound=12 < 96 drachms, or 288 scruples, or 5.76 apothec. pound=\(\frac{1}{2} \) pound commercial 24 loth. One Austrian apothec. p 12531 pounds troy weight.—The Austrian archy is an empire bereditary in the larraine dynasty. The "principles to the basis of the organic institution crown-lands," promulgated Dec. 31, be considered the constitution of the According to them the Austrian are According to them the Austrian cuindivisible unit. The ministers of indivisible unit. are responsible only to the emperor. tees, or boards, composed of represent the hereditary nobility, freeholders, a men, shall be constituted in every per their privileges are limited to giv the governors. All subjects are eyes of the law. All remnants of vassalage, serfage, socage, &c., a forever. To every religious denor ognized by law free religious exerc government are guaranteed. These have, as yet, been carried out only p pecially in respect to the provincial designed as a kind of substitute for p resentation. A general law for of the self-administration of city porations, promised repeatedly only in course of preparation in ministration of the military department. in 1855, been transferred to a under the immediate control Oberosmmand composed of 6 department considered and foreign a sublic worship and educ action; 6, industry, con justice: 0, improvements. The countrall, composed of 12 membed dinate to the ministry, and and c governed by g

The income of 1856 was made up by

ovincial presidents (Landsprási-y are divided into circles (counties), townships. Municipal officers are issues possessing a certain amount of paying a certain amount of tax-instances they are appointed by The administration of justice was organized in 1851. All privileged ss been entirely abolished. There s of jurisdiction. The district istrict collegiate courts have origion in civil suits up to a certain petty criminal cases, and the counindesgerichte) have original juris-other civil cases and in all crimiich, under the law of 1848, were r juries; they have also appellate cases to be tried by the district provincial courts (Oberlandesgeich there are 19, are the courts of cases tried by the district courts, resort for civil cases tried by the . The highest tribunal of the he court of appeals (Oberster Cassa-Vienna. Beside these courts there Causalgerichte, such as boards of special jurisdiction in certain comrs, courts concerning questions of cheelgerichte), courts of admiralty, miners' law. A limited publicity miners law. A limited publicity is proceedings of the provincial civil law is administered accord-le of 1811. The criminal code of anded in 1852.—The finances have sen the sore point of the Austrian a. Having been uttarly prestrated a. Having been utterly prostrated leonic wars, their condition was ving when the revolutionary tor-and the consequent wars in Italy , again brought Austria near the The government paper some 20 per ct. below par. Still, began to brighten, when the orithe position of armed neutrality

Austria once more destroyed bringing the income and the exbalance each other. The income dily increasing, it is true, but so diture. By keeping a separate ac-ie "extraordinary expenditure" iminished since the conclusion of hough still but little less than the nditure), the Austrian government e to cipher out an improvement of condition, but this is, of course, an ordinary income and expenditure

Income.	Expenditure.	Deficiency.
Florins.	Florina.	Floring.
.161,783,151	209,141,501	47,408,850
121,619,615	156,679,486	64,557,871
144,018,758	259,468,048	145,454,290
191,296,457	265,458,060	77,161,603
228,252,088	273,420,470	55,163,432
226,865,108	279,912,439	58,447,831
287,186,998	298,960,028	56,823,635
945,888,794	294,529,681	49,195,957
258,508,915	800,875,669	42,866,754
968,508,796	891,877,664	59,868,868

a glance on the following table:

116 income of 1800 was made up by \$2,181,812 fl. from direct taxation (against 87,965,287 in
1855), 148,885,459 from indirect taxation, customs, &c. (against 139,190,769 in 1855), 9,506,159 revenue from government property, 10,088,692 surplus of the sinking fund, 7,896,674 from
divers sources. Of the expenses 84 per ct. (109,695,588) was for the expenses 84 per ct. (109,-695,558) was for the army and navy, 27 per ct. (88,032,650) for payments on behalf of the public debt, 9 per ct. (28,197,555) for the department of finances, as much (28,886,757) for the department of the interior, less than 5 per ct. (15,425,421) for the department of justice, 81 per ct. (10,897,169) for the police department, 2 per ct. (6,420,623) for the imperial court. The deficiencies have been covered by new loans, by the income from the commutation of ground-rent, and by the sale, for a term of 90 years, commencing from Jan. 1, 1855, of several government railroads (1, from Bodenbach to Brünn and Olmutz; 2, the South-eastern R. R., from Marchegg to Szolnok and Szegedin; 3, from Lissawa to Oranizza and Basiach) and several mines, the former bringing 65,450,000 fl., the latter 11,550,000. The funded debt of Austria in 1848 amounted to 831,706,664 fl. fl., the latter 11,550,000. The runded deut of Austria, in 1848, amounted to 831,706,664 fl., and, on Jan 31, 1850, to 1,023,200,000. Since that time the following new loans have been made: Sept. 1851, 85,569,800 fl.; May, 1852, 35,000,000 fl.; Sept. 1852, 80,000,000 fl.; March, 1854, 50,000,000 fl.; Nov. 1854, 350,000,000 or 400,000. The last mentioned is a material enhanciation loan, which was or 400,000,000. The last mentioned is great national subscription loan, which was to be considered as a voluntary matter, in imitation of the French subscription loans, but it was, in many instances, simply a compulsory loan. The amount realized in this way cannot be stated exactly, many subscribers, pecially in the Italian provinces, having failed to pay their quota. Altogether the funded debt of Austria has doubled within 7 years, being 1,-623,769,800 fl., if the sum raised by the suscription loan of 1854 has not exceeded 850,000,-000, the minimum which was to be realized by 000, the minimum which was to be realized by any means. In 1858 a new lottery-loan of 40,000,000 was contemplated. If this should be effect be 47 fl. for every inhabitant. Now the indebt-edness of the kingdom of the Netherlands, re-duced to the 5 per ct. rate, is equal to 200 fl. for every inhabitant; that of Great Britain 180; of France, 90; of Belgium, 60; but then the taxable capacity of Austria is so much inferior to that of these kingdoms that her indebtedness is, comparatively, a heavier burden. In 1852 government took the property of minor orphans under its charge, a measure which has always been considered as a concealed loan. The total been considered as a concealed loan. The total amount of this property has been estimated at 950,000,000 fi.—The army of Austria is, according to the reorganizing act of Nov. 1, 1849, divided into 4 departments (Obercommando), comprising 14 army corps, beside the Croatian-Slavonian and the Dalmatian civil and military department. The army, consisting of 96 brigades, 10 divisions, 135 batteries, with 1,140

pieces of ordnance; numbers in peace, 420,000, in war, 630,000 men. The sub-divisions are:

1. Infantry: 62 regiments of the line, 14 regiments of friemen, 25 battalions of riflemen. 2. Cavalry:

8 regiments of cuirassiers, 7 regiments of dragoons, 11 regiments of uhlans, 12 regiments of hussars.

8. Artillery: 12 regiments of field artillery, 1 regiment of rocket mortars.

4. Two regiments of engineers and one corps of pioneers.

5. Three battalions for field-hospital service, one corps of messengers, the dragoons and infantry corps of messengers, the dragoons and infantry of the staff. 6. Six regiments of gens d'armes, of the staff. 6. Six regiments of gens d'armes, 4 garrison battalions, and 2 Bukovina frontier battalions. Among the fortresses of Austria, Comorn in Hungary, Olmutz in Moravia, Peterwardein in the Serbian military frontier, Mantua, Venice, and Verona in Italy, are the strongest. Since 1855, great efforts have been made to render Cracow an important point of defence against Russia, the strongest fortress of defence against Russia, the strongest fortress of the empire.—The Austrian navy, according to the Annuario Maritimo of 1857, consists of the Annuario Maritimo of 1857, consists of 11 paddle-wheel steamships, 5 screw steamships, 5 frigates, 5 corvettes, 7 brigs, 5 goelettes, 2 prames, 1 bombarde, 84 peniches, 18 gunboats, 5 schooners, 9 trabacles; altogether 107 vessels, carrying about 850 guns. In 1857, two screw steamships of the line and another acrew steamships of the line, and another ship of the line, each carrying 90 guns, were in course of construction. Beside these, and another were in course of construction. Beside these, there is a flotilla of gunboats plying upon the Danube, and another on Garda Lake. The supreme command of the navy is seated at Trieste, where there is also a naval academy. The navy yards are at Trieste, Venice, and Pola. The corps of naval officers consists of 2 vice-admirals (the archduke Max and Baron Bujacovich), 3 rear-admirals, 7 captains of ships of the line, 7 commanders of frigates and corvettes, 31 lieutenants of ships of the line, 25 lieutenants of frigates, 44 first ensigns, 47 second ensigns, and 116 midshipmen.

We now come to the purely historical portion —We now come to the purely historical portion of our subject. The present archduchy of Austria having in ancient times been inhabited by the Celtic tribe of Tar afterward Norici, was conquered by t ns in the 1 r 14 before Christ T 14 before Christ. I the Christian era. th of the Danube be Marcomanni and and Styria, including bona (Vienna) to Pau Austria and Styria, Carniola to Noricum, 19701 to political divisions disappeared du tion of nations, and since 568 the constituted the boundary between a nation of the Bajuvarii and the Avari. magne annexed the country of the Ar German empire (791). It v 1 ria, or Marchia Orientalis Austria, constituting, since .

district of Germany.

Leopold von Babe grave of Austria. I possession for 263 ye territory by the annexation niols, by conquests from the by inheritance. Under the Jasomirgott, Austria was erect tary duchy. Frederic, the last berg dynasty, already contem-tion of Austria into a sove when, by his sudden death in h Magyars, his line became extinct (E German emperor, Frederic II, claimed Austria as a vacant fiel o But neither h crown. e nor his s succeeded in establishing their such 1251 the Austrian States elected and son of the Bohemian king, duke of Austria and Styria. Havis acknowledge Rudolph of Hapsburemperor, Ottocar was defeated by and compelled to relinquish all his to the victor. Determined to ream he again waged war against the awas overnowmend and all the compelled to ream the compelled to ream the compelled to the co was overpowered, and slain on the (Aug. 26, 1278). From that the present day the dynasty of Happin Austria. Rudolph's son and bert, obtained, in 1801, the Swabin From that the At his death (1308) Austria h of 26,534 square miles. His 8 a divided the Austrian possessions, united again by Albert II. (1838). division took place among the half II., when Albert III. got Austria. pold all the rest. Leopold wa pold all the rest. Leopold was against the Swiss, near Sempach descendants remained in possess and inherited the duchy of A when Albert's line became exi III. of Austria having been elect peror, elevated Austria to the reduchy. His son, Maximilian I., him in 1498, obtained the I marrying the heiress of Charles marrying the heiress of Charles of Burgundy, also Tyrol; and I son Philip to the daughter of Cathelic, brought the Hapsburg; throne of Spain. Thus Philip's of Spain, became, under the nam German emperor (1519). He 1521, ceded the Austrian posbrother, Ferdinand I. Ferdinan kingdoms of Hungary and Behing the eister of King Lewis II. to the rank of one of the greaters, Austria had an area of miles. But the possession of Hundisputed. John Zapolya, aide tried to wrest the iron crown tried to wrest the iron or from Ferdinand, and in 152 had already invested Vienn

f Hungary and the title of king, session of Transylvania was guar-descendants. Even after Zapolordinand could reenter into poswer Hungary only by paying an of 80,000 ducats to the Turks. ia was once more divided among ons, Maximilian II. (German em-1576) receiving Upper Austria, Bohemia; Ferdinand, Tyrol and ia; Charles, Styria, Carinthia, Goerz. Rudolph II., successor to -1612), one of the zimilian (1576 orst emperors Germany ever had, I to cede Bohemia and Austria to athias, under whose reign (1612-ious 80 years' war originated, by the Bohemian Protestants to ac e Hapsburg dynasty. Ferdinand Mathias (1619-1637), having deal king elected by the Bohemians war of extermination against the Bohemia and Moravia, expelled ands from his dominions, and anent privileges of the states. Botirely devastated by this monster, r recovered from the calamity. es, only 130 remained at the close of 30,700 villages, not over 6,000; inhabitants, about 780,000. In the war, Ferdinand was compelled in the same of the war to an end y the peace of Westphalia, ceded one. Ferdinand's son, Leopold I.

In mere instrument of the Jesuits, is misrule, the Hungarians into is misrule, the Hungarians into the Turks. In 1683, Kara Mus-d Vienna, which was saved only arrival of a Polish army, led by i. Leopold's armies having rengary, it was converted from an lom into an hereditary one. defeated in many sanguinary bat-lebrated general, Prince Eugene, antry between the Danube and o Austria. Leopold's design to obestion in Spain for his second son, ustrated by the diplomacy of Louis This occasioned a general war in which England, the Nether-, Portugal, and Savoy, took sides , Fortugal, and Savoy, took sues ror against France. Success seemm, by the death of Leopold and of Joseph I. (1711), Charles became Austria. The allies, fearing the of Austria if the crowns of and Germany should be united from their afforts against France. from their efforts against France, was concluded at Utrecht, by setherlands, Milan, Naples, and hanged for Sicily in 1720) fell to Philip of Anjou, grandson of was acknowledged as king of its treaty the area of Austria was 191,850 square miles. Having once more waged war with France and Spain, Charles lost Naples, Sicily, and a portion of Mi-lan (1735 and 1739); while a few years later the peace of Belgrade deprived him of nearly all the fruits of Prince Eugene's victories over the Turks. All these sacrifices Charles consented turks. All these sacrinces Charles consented to, principally from a desire to obtain the general recognition of the so-called "pragmatic sanction," by which his daughter, Maria Theresa, was declared the heiress of the Austrian monarchy. Yet, immediately after his death, her right of succession was contested by most of the leading powers, England excepted.
Frederic II. of Prussia seized Silesia, the elector
of Bavaria (Charles VII.) assumed the title of
archduke of Austria, and was elected German
emperor (1742). Nothing but the fidelity of emperor (1742). Nothing but the fidelity of the Hungarians saved Maria Theresa. By the peace of Breslau (June 4, 1742) she resigned her claims to Silesia; by that of Aix-la-Chapelle (Oct. 18, 1748) the duchies of Parma, Piacenza, Guastalla, and part of Milan. In the meantime, the emperor Charles VII. had died (1745), and Maria Theresa's husband, Francis I., grand duke of Tusoany, belonging to the ducal family of Lorraine, had been elected German emperor. In order to get Silesia back from Prussia, Maria Theresa conspired with France, Saxony, and Sweden, against King Frederic; Saxony, and Sweden, against King Frederic; but a seven years' war, in which Frederic covered himself with glory, resulted only in the reaffirmation of the status quo. Francis, who died in 1765, was succeeded as emperor by his son Joseph II., who, in Austria, acted only as assistant-regent until the death of his mother (1780). During this period Games and 1772), meria were taken forcibly from Poland (1772), (1780). During this period Galicia and Lodomeria were taken forcibly from Poland (1772), the Bukovina was obtained from Turkey (1777), and some smaller possessions in Germany, by the peace of Teschen (1779), increasing the Austrian dominions, altogether, to an area of 233,741 square miles. Joseph II., the greatest monarch Austria ever had, endeavored to enlarge and complete the political reforms partly initiated by his mother. Entirely reversing the traditional policy of most of his predecessors, he granted full religious liberty to Protestants, discontinued the censorship of the press, reorganized public education, abolished press, reorganized public education, abolished 900 convents, and crushed the political power of the Catholic clergy, who generally took sides against him. By a vigorous tariff legislation, based upon the protective system, he became the creator, as it were, of Austrian industry. Nothing daunted by the opposition of those who adhered to the old order of things, he pursued his course with unflinching energy. his course with unflinching energy. But in this he went rather too far ahead of his people, who were not always able to appreciate his policy. An insurrection arose against him in the Netherlands. In vain he sought to get rid of them, by exchanging them for Bavaria, a project which was frustrated by the efforts of Frederic of Prussia. No less unfortunate in his war against Turkey, Joseph died from grief (or, as some believe, from poisou), Feb. 20, 1790. His

brother, Leopold II. (1790-1792), reconciled the Netherlands, made peace with Turkey, and en-tered into the alliance against revolutionary France. Thus his son Francis (1792-1885) was, immediately on his accession to the throne, drawn into the whirlpool of the revolutionary drawn into the whiripool of the revolutionary wars. By the peace of Campo Formio (Oct. 17, 1797) he lost Lombardy and the Netherlands, but obtained, in exchange, a large portion of Venice. Two years before he had obtained Western Galicia, by the third partition of Poland. In 1799, Austria, allied with Russia, declared war against the French republic for the second time but was compolled by Naroleon second time, but was compelled by Napoleon Bonaparte to accept the peace of Luneville (Feb. 9, 1801), by which the archduke Ferdinand was deprived of Tuscany, being compensated, though, by Saltzburg, Passan, Eichstadt, and the title of prince-elector. The public debt and the title of prince-elector. The public debt of Austria had, by this time, increased to 1,220 million florins. On Aug. 11, 1804, Francis proclaimed himself hereditary emperor of Aus-tria, uniting all his dominions under the name of Austrian empire. In the next year, having again gone to war with France, he was forced to sign a most ignominious peace at Presburg (Dec. 26, 1805). When, by the organization of the Rhenish league (Rheinbund), under the auspices of Napoleon (July 12, 1806), the integrity of the German empire had been destroyed, Francis laid down the imperial crown of Germany (Aug. 6, 1806). A fourth time he detar-Francis laid down the imperial crown of Germany (Aug. 6, 1806). A fourth time he determined upon a war against Napoleon, unaided by any other power, England excepted (1809), but the result was most disastrous. The peace of Vienna (Oct. 14, 1809) took away from Austria some 42,000 square miles of territory, with 3,500,000 inhabitants, and an annual revenue of 11,000,000 florins. Utterly prostrated, Francis did not dare to withhold his consent when Napoleon proposed to marry his daughter when Napoleon proposed to marry his daughter Maria Louisa (1810), and in 1812 he even en-tered into alliance with Napoleon against Rus-sia. But when the Russian campaign had broken Napoleon's power, and Prussia had risen against him, Austria joined in the alliance of against him, Austria joined in the alliance of England, Russia, Prussia, and Sweden (Sept. 9, 1813), and took a col cuous p in the over-throw of the French B- peace of Paris (1814) the La and all former nosse Emperor Fran der of Rus of Prussia, w tion of the old monar became the seat of the w the purpose of reconstructure Since that time, the supprideas and movements through peared to be the principal object or government (Prince Metternich). tria which, at the construction of f
Bund (replacing the f
foremost in firmly estal arbitrary monarchical 1: pation of the people; &

strian diplome mont (lozz); suppression of the popular (1828). During the Greek war between Russia and Tu interests did not coincide with Russia, avoided, with great dexis mit herself for either party, and bringing about the convention of the basis of the peace of Adrian The insurrections which in Italy for the peace of the upon the French revolution crushed by Austria without di though professedly neutral toward in revolution (1831), she disarmed the in had taken refuge on her territory, will was allowed to continue its operation the Poles from Austria. Since that Austrian policy seemed to be direct than ever to the war against liberals trie and Mattarpich became the beautries. tria and Metternich became the bylitical reaction and of absolution the emperor Francis, who was successon Ferdinand (March 2, 1835), did set change, either in the personnel or is a cies of Austrian administration. A view of Ferdinand with the mosses is and Prussia the holy alliance was In the oriental imbroglio of 1846, its with England. Another was again suppressed with (1844). Thirty years of pease weight of absolute despotism, mote a health and mote a healthy and progress the resources of the empire. chinery, unwieldy as it was, more rotten from year to ye the police had been unavailing the elements of dissatisfaction indignation. The different nat tuting the empire served as a brul opposition, and Metternich's ing them in check, one by the lose its efficiency. The Polish lose its efficiency. The Polish Cracow (which, in consequence to Austria, Nov. 1846) comment the neighboring provided in stigating the wrath of the p noblemen, many of whom wer most barbarous manner, the the easternmost portion of not lost with the other nat Italian provinces the oppose by the political reforms of the concessions to popular o the other Italian govern the former parliamentary had gradually grown into pecially so since the de Archduke Joseph (1847)

rections i

l, which brought the entire Aus-hy very near its r . On March e of Vienna rose against the min-nade but a feeble show of resistsich was compelled to resign, and ledged himself to convoke a consentatives of the people, to form a son for the empire. But at the Hungarian diet demanded and idependent constitutional governmerely a dynastic union with emidable outbreak at Milan and ing close upon the insurrection of elled the Austrian army to retire While thus momentarily successful on in the centre of the empire, nflict between the levelling tenpopular leaders and the inconnasses to be acted upon, destroyed of a firm and energetic plan of he revolutionists, some were ing those provinces in which the nality predominates, to Germany, ary to herself, and favoring the Italian states under a national osition of Austria as one of against the vague hope of a ref Germany. The greatest and in-mountable difficulty of a political upon a popular basis, was the athy among the different nation- the German revolutionists deves with abstract theories on the and solidarité of all nations, the rought of nothing else but getting sive feeling of inferiority in erman race. With them the German race. With them the despotism was but a secondary much so, that they did not hesire with the political reactionists s of the revolution. In Vienna Count Fiquelmont, which had tternich, proved its utter incaple with the pending difficulties, the political power fell into the e students' legion. The emperor, resort to extreme measures, fled (May 17). Another unsuccessful lance (May 25), which, until the ngrees (July 22), exercised an allocation, compelling the ministry a for successors more subservient s (July 8).—When utterly prosin the very capital, the imperial pather strength in the provinces. erial o gather strength in the provinces. hreak at Prague, was suppressed srnage, by Prince Windisohgratz Lombardy, Gen. Radetzky openaive campaign in June, captured us, and other important places, he Sardinian army (the king of

Sardinia having taken sides with the revolted provinces) near Oustozza, July 25. Thus Lom-bardy was subjected again to Austrian military rule, while Venice still held out against it. But a new tempest arose in another direction. The Hungarian ministry (Bathyanyi-Kossuth) pre-paring the way for an independent Magyar kingdom, awakened the fears and national antip thies of the Slavic races, which would necessarily have formed part of this kingdom. Jellschich, the governor (Banus) of the Croatians, strengthened by the connivance of the imperial court, pronounced against the Hungarian govern-ment. The efforts of Archduke Stephen to adjust this conflict, only tended to exasperate the Hungariana, as proving incontroveribly the collusion of the court and Jellachich. The carchduke having returned to Vienna, Count Lemberg was sent to Hungary as imperial commissions and military commander in chief, but missioner and military commander-in-chief, but he fell as a victim of the infuriated people, on his arrival at Peeth (Sept. 28). Immediately his arrival at Pesth (Sept. 28). Immediately the emperor ordered the dissolution of the the emperor ordered the dissolution of the Hungarian diet, and appointed Jellachich supreme military commander of Hungary. The diet, denying the authority of the emperor, organized a committee of safety, electing Koesuth president. This, of course, was equal to an open declaration of war. When the garrison of Vienna departed for Hungary, the people of the capital, sympathizing with the Hungarians, rose once more. They took the arsenal, and hung the secretary of war, Count Latour, at the window of his office. Congress, under the pressure of the popular movement, declared itself permanent, and sent an address to the emperor, asking for a new ministry, and the removal of Jellachich. The emperor, who in June, had returned from Innsbruck to Vienna, again fied to Olmutz. The masses at the capital armed themselves under the leadership of Gen. Bem, preparing to resist the impending den. Bem, preparing to resist the impending attack of the army. The garrison, after having retired outside the limits of the city, was joined by Jellachich's horde of Croatians, and by the army corps of Prince Windischgrätz. On Oct. army corps of Prince Windischgrätz. On Oct. 28 they assaulted the city, but the people made a desperate resistance for six days. When, on Oct. 29, the suburbs had been taken by the military, the popular leaders began to talk of surrendering, but the news that a Hungarian army was hastening to relieve Vienna, roused them to a renewal of their efforts. The Hungarians had indeed sent an army of volunteers, but being utterly unorganized and poorly armed, they were routed by Jellachich (Oct. 30). On the next day, the struggle at Vienna came to an end; the city was taken by storm with immense alaughter, and a horrible massacre followed, the savage Croatians having been let mense alaughter, and a horrible massacre followed, the savage Croatians having been let loose upon the citizens. Martial law was proclaimed, and many of the popular leaders were shot, among others Robert Blum, member of the German national congress, Messenhauser, commander of the national guard, and Hermann Jellinek, editor of the "Radical." The sta-

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came the l

dents, and other young men who had played a conspicuous part in the revolution, were by thousands enlisted as private soldiers, and sent to Italy them to be treated as private with the sent to the sent to be treated as private with the sent to be treated as private with the sent to be treated as a sent to be treated to Italy, there to be treated as enfants perdus. On Nov. 22, a new ministry was formed, of which Prince Felix Schwarzenberg was presi-dent. As the energetic measures determined dent. upon by the new administration might have been impeded by the natural good-heartedness of the emperor Ferdinand, he was induced to resign, Dec. 2, 1848, and his nephew, Francis Joseph, a youth of 18 years, whose mother, archduchess Sophia, had been the leading spirit of the counter-revolutionary movement, was called to the throne. The campaign against Hungary was commenced at once. Prince Windischgrätz crossed the Leytha river, defeated the Hungarians near Rasb, and a second time, near Babolna (Jan. 1849), occupied Ofen, and pushed the Hungarians to the left bank of the Theiss. But there the operations of the imperial army came to a stand still. During the winter season, Görgey, Klapka, and other military leaders, organized the popular army, and were thus enabled to commence the campaign of 1849 under favorable auspices. Gen. Bem, in Transylvania, defeating the imperial army at Piski (Feb. 9), and the Russians who had been called to help, near Hermannstadt, subjected the whole province to Hungarian rule. The same was done in Croatia by Perczel, (April). The main body of the Hungarians ad-(April). The main body of the Hungarians advanced from beyond the Theiss in two columns, (April). vanced from beyond the Theiss in two columns, defeated the imperialists near Gödöllö (April 7), routed them completely near Waitzen (April 9), again near Nagy Sarlö (April 19), and repulsed them from Comorn. Then was the time when the Hungarians might have advanced on Vienna, and overthrown the Austrian monarchy. But the narrow views of the leaders, who declined to take any part in revolutionary movements outside of Hungary, prevailed, and the favorable opportunity was lost. Dissensions are between the political leader, Kossuth, and the generals, Görgey especially, when the diet adopted a declaration of independence, and Kossuth was appointed president (April 14). Still, even then the war might 1 e been carried on for a then the war might le been carried on for a long time, if Russian ... invited by Austria. In el on had not been • sed the Galician 130,000 men, wl P iutin cooperated w been appointed supr Austrian forces), on the and Gen. Luders march Although the Hungarians fully, on several occasions, they can be length of time, hold out againgful odds. Repulsed to the left Theiss, hemmed in on all sides by the Gorgey, to whom the supre dic been transferred by Kon dered to the Russians n Hungary was treated as a so-Haynau, known as the h

of Hungary, and parli torrents of blood were shed, crammed with the unhappy v -Simultaneously revenge.rences the war in Italy had be Within a few days Gen. Radet Sardinian army twice, at Mortara and Novara (March 23), and obtain by which Sardinia was obliged to m Austria for the expenses of the war (A Venice, where an indep livres). lican government had been organ invested by Radetzky, and forced of der, Aug. 23, 1849. The revoluti been conquered, the Austrian govern menced the arduous task of reur monarchy upon a firmer basis monarchy upon a nrmer basis uma The congress, which since the final at Vienna had been adjourned to Kee Moravia, was dissolved (March 4, 184 constitution promulgated by the free w emperor, which never went into a The efforts of the German national Co Frankfort to reconstruct the Germs excluding Austria from it, were visit posed by the Austrian government king of Prussia did not dare to day sition by accepting the imperial c by the Frankfort congress. Still, the leadership of the counter-r Still, by movements in Germany, and air princes to put down the peop tained a preponderating influen Germany, and made some for centralize the confederacy, all prostrated by the energetic p Schwarzenberg. In 1850, the flict between Austria and Propoint to a crisis; armies wer a civil war was anticipated, fight among some outpost lace near Bronzell in He 1850), when, at the last mome mitted to the demands of A German diet at Frankfort with the same as it was before 1848; part, renouncing, for the time of entering into the Gorman possession ad by Prince Schwin the admirate administration

gotiations were commenced with states for the establishment of a toms-union with the Zollverein. g lest her influence might be outat of Austria, opposed this move-eral of the Zollverein states took er, and the moment seemed to be when her objections would have te, when Prince Schwarzenberg's (April 5, 1852) brought on a policy of Austria. His successor, chauenstein, declined to press the made by Prince Schwarzenberg, I himself with the conclusion of a reaty between Austria and the pril 4, 1853). The reconciliation was completed at a personal internperor and King Frederic William 1853, another popular outbreak lilan, but was suppressed without diplomatic rupture with Switzerbe Italian revolutionists had taken ie consequence. On Feb. 18, an atide against the emperor's life by a
rian, Libenyi. These events were
y so far as they tended to perpetre military rule. When, toward the he Montenegrins rose against the is sided with them, and Count to was sent to Constantinople (Feb. ed full redress of their complaints. oriental war surrounded Austria es of the most serious kind. While of her counter-revolutionary policy for the aid lent by Russia in 1849 eemed to insure at least her tacit with Czar Nicholas, her govern-keen-sighted to overlook the fact ests of Austria lay all on the other e dissatisfaction of the subjects puered, rendered it impossible to war, which might give an opporv revolutionary movements. Thus Austria proclaimed her neutrality, 20, 1854, a treaty was concluded 20, 1854, a treaty was concluded Prusia, both pledging thema an active part in the war only interests of Germany would appeared. The Russian emperor, art of Austria, endeavored, by flatdler German states, to incite them ia, and went even so far as to appeal to the Slavic races. Thus forced to change her neutrality, le, into an armed one. She agreed (June 14, 1854) to occupy the neipalities, advanced an army of toward the Polish frontier, and tussia the four points which afterthe basis of peace. This propopeer rejected by the czar, Austratified se threatening that the an attitude so threatening that the bobliged to retire from Turkish Austrian army under Gen. Coro-the capital of Wallachia, Sept. 6,

and the war on the Danube was virtually at an end. By promising to the western powers active support, whenever they would pledge themselves to carry on the war in such a man-ner as effectually to cripple the Russian power, Austria induced them to determine upon the Crimean expedition. Now, at last, the active cooperation of Austria seemed to be certain; indeed, a treaty to that effect was agreed to by her (Dec. 2, 1854); but in consequence of the want of success of the allied armies before Sebastopol and the unwillingness of the other German powers to accede to the treaty, she again fell back upon her former vague promises, merely offering her good offices to the contending parties. Not even when the Russians once more invaded Turkish territory (Jan. 9, 1855) did she move against them. Plenipotentiaries of the belligerent powers met at Vienna (March, 1855) but were unable to excee vienna (March, 1855) but were unable to excee vienna a basis of 1855), but were unable to agree upon a basis of peace, and finally adjourned on June 4. During the progress of the negotiations Austria had distinctly pledged herself to go to war if Russia should remain obstinate, and in fact the plan of a campaign in Poland had already been matured at Vienna, when all at once Austria began to reduce her army on the frontier. Financial embarrassments and the cholera, which within a few months destroyed 25,000 soldiers, were the ostensible cause of this unexpected movement, the real cause being probably the assurance given by Russia that in any case she would adhere to those of the four points which involved the special interests of Austria. The western powers began to understand at last that, while 1855), but were unable to agree upon a basis of powers began to understand at last that, while they had been trying to use Austria as a cat's paw, they had been used themselves. They became more reserved toward her; nor was their came more reserved toward her; nor was their confidence renewed when she again assumed a more decided position after the destruction of Sebastopol. The emperor of the French, who formerly had been anxious to secure the friendship of Austria on any terms, began to look toward Russia, and eagerly seized the first opportunity of covaluding peece (1856). Since that tunity of concluding peace (1856). Since that time the bad feeling between Austria and Russia continued to increase, and in 1857, the offi-cial organs of the Austrian government were ready to assert, that there were no two powers so hostile one to another as Austria and Russia. The strongest proof of this was to be found in the ostentatious sympathy shown on all occasions by despotic Russia for constitutional Sardinia. When, in March, 1857, a diplomatic rupture took place between Austria and Sardinia, the mother of the Russian emperor went to Turin to assure the king of the friendly feelings of the emperor Alexander II. (May, 1857.) During the summer of 1857, a coalition of Russia and France against Austria and England was believed to be the next move upon the chess-board of European politics, and the appointment of an interview between Czar Alexander and Louis Napoleon at Stuttgard (Sept. 1857) went to strengthen this belief. But that 1857) went to strengthen this belief. But that interview became a turning point in quite an-

other direction. It showed that the apprehensions of new complications had been founded upon the incorrect supposition that the tendencies and volitions of Alexander II. were identical with those of his father. Alexander, con-ceiving, contrary to the views of his father, that the real manifest destiny of Russia pointed to the East, declined to make the isolation of Austria the basis of a new system of foreign policy of Russia, and, by meeting, in a friendly spirit, the Austrian emperor (Oct. 1, 1857, at Vienna), neutralized the effect of his interview with the emperor of the French. In consequence, Austria, whose influence had been seriously threatened for some time, regained sufficient strength to successfully oppose the union of the Danubian principalities, contemplated by Louis Napoleon during the time when he, also, shaped his policy with a view to a closer alli-ance of France and Russia. Freed from all Freed from all apprehensions in regard to her foreign policy, Austria was once more enabled to turn her attention to her internal affairs. During the oriental war the work of centralization had been carried on by the Austrian government with apparent success. By the concordat with the Holy See, the ratifications of which were exchanged on Sept. 26, 1855, Austria gave back to the Roman Catholic clergy all the privileges and influence which, since the time of Joseph II., had been wrested from them. By stimulating public enterprise and promoting the material interests of all classes of the population, the government was earnestly endeavoring to make the people forget the events of 1848 and 1849. The military rule was somewhat relaxed, and many hundreds of political prisoners were pardoned. At the beginning of 1857, the emperor Francis Joseph made a journey through Lombardy, and in May through Hungary, but the remembrance of past wrongs appeared to be still alive, and the enthusiasm manufactured by the officials could not conceal the fact that both provinces were still far from being reconciled to Austrian rule. The journey, interrupted by the death of a daughter of the emperor, was resumed in August, and the promulgation of a general amnesty for political offences went to prove that the emperor value really intent to close the account of 1848 1849: but to all remonstrances against the ver x the _ united empire and against the Austrian nationality, clement and sustainor. he lent a deaf car. It was, post ing with these tendencies, that lly. though not systematically, the spirit or r intolerance was suffered to reap provinces, but when (Oct. 23, 18... ous stamp tax was imposed upon the new press, it created general surprise, having become accustomed to the bel the field of politics at least more libe would prevail. That me i ed at one blow the entire y within the last three or

up exuberantly in proportions entirely a out of the United States (as an instance be mentioned that one of the Vienne papers, the Vorstadtseitung, had a regula over 40,000 copies); still, injudicious ast ure would appear, it is not improbable. was decided upon more from fine ties than from any other cause. In fact barrassments of the national treasury has so great that every thing was deeme ble if at all calculated to replenish the the government, especially so when monitory symptoms of the great finan-had destroyed all hopes of raising a in in the ordinary way. The outbrai-crisis, which fell heavily upon the year trian commercial enterprise had at trian commercial enterpri e, bad, 🛋 l good effect of compelling the empersent to a reduction of the army. By the expenditure for the army was reduction 145,000,000 to about 95,000,000 to December, 1857, the financial reval spent its power so far in Austria, national bank was enabled to last \$3,000,000 in silver to the city of Ha fact which, however, would not seem the surprise it created, if it is kept in a the bank has an irredeemable circulation of the surprise it created, in 18 30, only 371 in 1845, 214,000,000; in 1835, 151,001 1830, 112,000,000; in 1820, 52,000,000 a view to the development of the surprise of Austria the government of merce of Austria, the government # endeavored to overcome the open England to the construction of through the isthmus of Suez, and the formation of a regular steams tween Trieste and New York. 1858, another effort was made b obtain an unrestricted commercia with the German Zollverein. AUSTRIA (Oestreich or Oe

duchy, the original nucleus around Austrian empire has been formed, by of 15,013 sq. m., and a population of It is bounded N. by Bohemia and I by Hungary, S. by Styria, and W. By the organic statute of 1849, it into 3 provinces (crown lates, of Saltzhurg, Upper Austria (Ostreta, 1970), and Lower Austria (Ostreta, 1970). Lower Austria has an area m. and a population of 1,714,605 cities, 270 boroughs, and 4,312 viscouthern portion belongs to the Snowpeak (6,330 feet). Beautiful Chain form the Kahlash mountains) or Wienerwald (Visna The Bohemian forest extends intereveral low mountain range toward and March rivers. The principal six has Danules, which divide parts nearly count in size. The transcript bank the right bank the

the left bank the Krems, Kamp, and e most fertile regions are the bottom • most fertile regions are the bottom
• Danube. The grape vine is cultisively. Mining is confined to iron,
and graphite. The most important
Vienna (the capital of the empire),
ustadt, Kloster Neuburg, Baden,
burg, and Krems. In industry and
Lower Austria takes the lead of all nces of the empire. Politically, it to 4 circles: Wiener Neustadt, St. ms, and Korneuburg. Upper Aus-rea of 4,616 sq. m., and 755,250 in-1 14 cities, 97 boroughs, and 6,026 is mountainous throughout. The zy south of the Danube is covered hern range of the Noric or Upper Numerous Alpine lakes diverof the country. In agriculture, ria stands before Lower Austria, but re worked at Ischel and Hallstädt.
e provincial capital. Lintz, Ried,
Wels, are the 4 circles into which
ria is divided.

A, a central county of Alabama, the Alabama river on the south, by n the east, and comprising an area uare miles. The surface is uneven il of good quality. In 1850 the luced 12,016 bales of cotton, 492, of corn, 131,650 of sweet potatoes, pounds of rice. There were 41 and 710 pupils attending public spital, Kingston. Pop. in 1850, 15, 18,730 were alayer.

m 8,730 were slaves.

RETH, JOHANN HEINRICH FERDIman physician, born at Stuttgart in
n 1835. In 1797 he was professor of Fubingen, in 1819 vice-chancellor and neellor of the university. His prinis a "Manual of Empirical Physical Phy s left a number of other medical so an "Essay on Circumcision," see to the practice of this ceremony He travelled exs and the Jews. ges and the Jews. He travelled ex-isited the United States, and praccaster, Pa. L, called Auteuil-les-Paris, to dis-

rom the Auteuil, near Senlis, in the of the Oise, is situated near Paris, resilles and the Bois de Boulogne, avorite suburban residence of the put the village is principally celehe many distinguished persons who

he many distinguished persons who rious times, resided there. Among Molière, Helvetius, D'Aguesseau, apelle, Condorcet, Franklin, Destutt tumford, and Henry Heine.

NTICITY, the character of a hislegal writing, or document. The the so-called Napoleonic code, contate definition of the rules, requireformalities established by the law, the authenticity of acts, docuis, of any nature whatever, as drawn vol. II.—26

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by officers of the law. As the omission of any of the prescribed formalities results in nullify ing the force of the document, the law punishes with great severity any such omission or viola-

AUTHENTICS, in the jus civile or Roman law, the extracts made from the Novelles, of decisions whose posterior enactment changed wholly or partly previous decisions and defi-nitions contained already in the Pandects or the Codex. To facilitate the understanding of these changes, the glossators of the jus prepared a kind of catalogues of such extracts, calling them ex authentica, as such was the original title of the Novellæ. These authentics are contained in the corpus juris, but have no authority. The German emperors, Frederic I. and II. of the Hohenstauffen family, issued in their name authentics, and ordered the civilians of Bologna to intercalate them in the code of Justinian. These last authentics had a prac-

tical authority.

AUTICHAMP, the name under which many members of the French noble family of Beaumont, have figured in history.—JEAN THERESE LOUIS DE BRAUMONT, MARQUIS D'AUTICHAMP, born in 1778, died in 1831, took an active part in the 7 years! war. During the revolution he fought for the cause of the royalists, and subsequently entered the Russian service. In 1709 quently entered the Russian service. he was sent with a reserve-corps of 80,000 Russians to Switzerland to strengthen Suwaroff's sians to Switzerland to strengthen Suwaroff's position, but Massena frustrated his plan. After the restoration, Louis XVIII. invested him with the title of count, and appointed him governor of the Louvre.—JOERPH EULALIE DE BEAUMONT, COMTE D'AUTICHAMP, stepbrother to the preceding, born 1774, died 1822, accompanied La Fayette to the U. S., and in 1788 was appointed commander of St. Domingo. On his return to France he joined the cause of the emigrant royalists and subsemingo. On his return to France ne joined the cause of the emigrant royalists, and subsequently withdrew from public life until 1815, when he was appointed governor of St. Germain.—Charles de Braumont, Count d'Auticham, born 1770, died in 1852, was from 1792 to 1799 one of the royalist leaders in the Vendée, but subsequently he submitted to the author-

quently pardoned.

AUTOBIOGRAPHY. The lives of persons written by themselves have usually been attractive and popular. Combining utility with amusement, autobiography is agreeable reading. To historical and metaphysical students it affords relaxation from laborious investiattords relaxation from laborious investigation, and from intense abstract thought, combined with valuable information in their respective pursuits; while, for the general reader, it unites much of the entertainment of the novel with the satisfaction of seeming to be engaged with an instructive book. The thought of writing memoirs of his own life,

but subsequently he submitted to the author-

ity and entered the service of Napoleon. After the July revolution he attempted an insurrection in the Vendée, for which he was sentenced to death in contumaciam in 1887, but was subse-

the proper purpose of an autobiography, is either to illustrate the history of the writer's own mind and heart, in order to show how these influenced his life, or to sketch event which the parents was well informed in the which the narrator was well informed, in conwhich the narrator was well informed, in con-sequence of having more or less participated in them, or, at least, having had good oppor-tunities of being thoroughly familiar with them. Through the lives of the persons who performed the achievements which history re-cords, the reader often arrives at a knowledge of the causes of events. Autobiography does insting or attempts to do justice to the indistice, or attempts to do justice, to the individual who lays open the springs and motives of human action; and, though the book often of human action; and, though the book orders turns out, like Cibber's, to be "an apology for the life"—slurring over some parts and complacently dwelling upon others—yet, by anowing what the writer wishes to appear, it generally conveys a pretty accurate idea of what he actually is. Sometimes, no doubt, a false impression of events and persons may be given, but, for the most part, a man who relates his own life (like a party examined as a witness in his own lawsuit), has his evidence lacently dwelling upon others--yet, by showocived with a certain allowance for extenuation and exaggeration. St. Augustine, who died near the middle of the 5th century, probably should be received as the first person who wrote what is fairly entitled to the name of antobiography. His "Confessions" take rank, not merely from their literary merit and strong religious feeling, but from their singular frankness. Many centuries clapsed before any other person wrote his own life. The memoirs of Lord Herbert of Cherbury (1581–1648), written by himself, are the earliest instance in the English language, and they remained in manuscript until 1764, when Horace Walpole printed them at his private press at Strawberry Hill. Sully, the celebrated statesman and warrior (1559–1641), so long the friend and minister of Henry IV. of France, also wrote his own memoirs, after the death of his master, and later, as to date of authorship, than those of Lord Herbert, though they treated of events anterior to those recorded strong religious feeling, but from their singular snip, than those of Lord Herbert, though they treated of events anterior to those recorded by his lordship, who flourished later. It is worthy of notice that (as Julius Casar did in his "Commentaries") the duke of Sully, all through his memoirs, speaks of himself in the third person. By far the great majority of autobiographies have been written in French and English. There are a few exceptions, which in German and Italian. chiefly in German and Italian.-It would be ome to enumerate and distinguish all of an of works. But, taking their authors wearisome to enumerate and distinguish all of this class of works. But, taking their authors with a slight classification, the more notices ble may be named. Thus the leading autobi-ographies, which we know as political, were written by the cardinal de Retz, Bishop Bur-net, Lord Clarendon, Bubb Dodington, Lord Malmesbury, Mirabeau, Theobald Wolfe Tone, Archibald Hamilton Rowan, St. Simon, Mira-beau, Fouché, Godoy, Dumouriez, Madame Ro-land, and the Duchess d'Abrantes. Napoleon

Bonsparte, while at St. I great deal illustrative of actions and motives, as w political events of his ti-recorded, with more or k recorded, WILL works of O'Meara, and Gourgand. Lucien Bon his own life. There are phies by military men, the was written by Prince Euge the e poleon's generals have contribu scription of books, but company written by British soldiers. Of p est, on account of the gallanty of tor, are the personal adventures of its Shipp (1785–1833), who entered the drummer and as sergeant, thrice led to hope at the siege of Bhurtpoor, and to hope at the siege of Bhurtpoor, and the service of the ser from the ranks to be a commission of the was in the army, also, that William so long among the raciest political will England, taught himself properly to his ideas with the pen, and the same personal history scattered through works are strikingly and pleasantly will be number of clerical or religious. who have written their own live able. John Bunyan, Newton, Wesley, Ellwood, Huntington, Bi Jay, Jung-Stilling, Mile. Klettenl Zschokke, and Adam Clarke, may Zschokke, and Adam Clarke, may larly noted. With them, perhap class William Cowper, the pa-have added little to this brand Benvenuto Cellini has left interesting memoir of himself, autobiography and journals are productions of this class. Martin, and others, in magazines and of cals, have given slight sketches ing incidents of their public en-and dramatists on the other ham and dramatists, on the other liberal in their confidences to the "Apology for the Life of Mr. Cone of the earliest of these, has standard classic. Among the are Charlotte Clarke (his dan are Charlotte Charke (his daugh inson, Madame Chairon, Mrs. Inehbeld, Mrs. Mowatt, and Gri tominist. There also are Mici composer, Charles Dibdin, John eric Reynolds, Thomas Holerof Cumberland. Among the scie James Ferguson, Dr. Priestlay, lar. Sir Simon D'Ewes, in the r I., an antiquary, has lef Among booksellers and p ington, Dunton, James 1 ington, Dunton, Franklin-who, with the authors, statesmen, and infamous notor lives—among these are V thief-catcher, James Harry described as "thief and pic du Barry, mistress of I

> wound up a career of vice by giber memoirs such of her former male es as refused to pay black mail for Lola Montez began hers in a Paris

but we believe the publication was eted; Lilly, the astrologer, memora-Pepys, gossiping Horace Walpole, Jonah Barrington, prison-breaking h such eccentrics as Crockett and ng to no peculiar class, but are not poked; neither can P. T. Barnum's fessions. The great mass of autofessions. The great mass of auto-are the literary. Those of Hume, taire, Marmontel, Alfieri, Kotzebue, nuel Johnson (his is a brief per-ut his Life by Boswell, is almost hical), Goethe, Charles Butler, Inateaubriand, Coleridge, Sir Eger-a, De Quincey, Leigh Hunt, Lov-orth, Jane Porter, Silvio Pellico, nnent. Lamartine. Scott. Moore. nnent, Lamartine, Scott, Moore, alt, Mary Russell Mitford, Madame the Margravine of Anspach, Sir w, R. P. Gillies, Madame D'Arblay, Sand, are among the most widely ron's memoirs (of which one copy in 1824) have not yet been pubizot, the literary statesman, is preoirs of his own times, and Béranger's hy was published in Jan. 1858, r his death. Lockhart is said to manuscript of his own life, and in is engaged on a similar work. Wellington's Memoirs by himself lescribed in a letter to Napier, the vill probably be published ere long, and's autobiography, delayed by his will soon appear. Godwin, Bulwill soon appear. Godwin, Bul-will soon appear. Godwin, Bul-William Carleton (the Irish novel-Hood, and others, have introduced solated portions of their personal the introductions or prefaces to ttions of their works. We have to s number of American autobiogralimited. At their head, however, klin's Life, and it is to be lamentmgh he wrote part of it as late soncludes with his arrival in Eng--thus leaving his last 33 years oted. Scott, Southey, Moore, and, commenced autobiographies, did them on much beyond the comof active manhood. In a letter ey (unpublished), he endeavors to this by stating that the impressions d and youth are pleasant, and we ard them—but when the cares and life have annoyed us, we shun the

lling and recording them.

ITHONES (Gr. auror and x3w, ery earth). It was an idea with Greek communities that they were original as to have sprung from which they then lived. The Ar-l Athenians made this pretension, hemselves autochthones. This was in opposition to the Dorians of the Peloponne-

sus, who were immigrants.

AUTOCRAT (Gr. auros, self, and sparse, to govern), a sovereign ruling over a country and its inhabitants with limitless power, embodying in his single person the legislative, executive, and desinistrative authority, delegating it to his administrative authority, delegating it to his agents and officials as he judges proper. The Asiatic nations have been subject from time immemorial to this system of government. The abstract definition of its principle and nature, to use legal terms, is, that the sovereign alone is and has the rights of a person, and that in rela-tion to him all the rest of the inhabitanta, his family not excepted, are things without rights. In Europe the sovereigns of Russia alone are autocrats, although Louis XIV. ruled for a time with something like autocratic power. During the suzerainty of the Tartars over Russia from the 19th to the ord of the 15th entry. sia, from the 18th to the end of the 15th century, the autocratic power took root and was developed to perfection. One of the conceptions of autocracy was that the living sovereign could appoint his successor, and make a gift of his state to anybody at his choice or whim, without being bound by the right of blood or of direct inheritance. This conception, however, was inheritance. This conception, however, was annulled, first by a ukase of Paul I., and subsequently the right of succession to the throne became firmly established and was defined by Nicholas I. and Alexander II. The 3 last Russian autocrats, Alexander II, Nicholas, Alexander II, at their coronation declared that they should rule according to laws. But as they are in principle the living law, they can abrogate, repeal, annihilate, change, any preexisting statrepeal, annihilate, change, any preexisting stat-ute, and substitute for it another. This being the emanation of their individual, unlimited will, the respect paid by them to any preëxisting law is in principle only a matter of their own pleasure. Such is the abstract absolute theory of the power of an autocrat. But in practice, even under the most absolute rule, certain rights which are constitutive of, and incertain rights which are constitutive of, and in-nate in, human society, are respected. These form a kind of common law, embodied in cus-toms, notions, and established usages; against them the will of the autocrat is generally pow-erless. Such are the individual, family, and property rights of the subject, that of the es-tablished religion, and the like. The violation of such rights has sometimes been extempted of such rights has sometimes been attempted, but has generally proved unsuccessful in the long run, and fatal to the violators. Few autocrats, therefore, have ever been able to exercise crats, theretore, have ever been able to exercise their power quietly in the fullest and most limitless comprehension. History also proves that autocrats are generally influenced by persons by whom they are immediately surrounded, and act as they are incited by their favorites, councillors, or courtiers, much more than sovereigns ruling under the restrictions of positive laws, or independent legislative and judicial bodies. bodies

AUTO-DA-FE (a Portuguese phrase signifying act of faith; Span., auto-de-fe), a public day

held by the inquisition for the punishment of heretics, and the absolution of the innocent accused. The term is also applied to the sentence of the inquisition read to the condemned just before execution, and to the session of the court of inquisition. See Inquisition.

of inquisition. See Inquisition.

AUTOGRAPH (Gr. autos, self, and γραφη, writing). As the derivation denotes, an autowriting). As the derivation denotes, an autograph is writing executed by a person's own hand. Long since it acquired a more general meaning, and is now understood as a manuscript executed by some one who, from station, action, intelligence, or notoriety, has obtained some reputation, whether good or bad. A numerous and generally very intelligent body, scattered all over the civilized portions of the world, bear the name, from what they apply themselves to, of autograph collectors. From themselves to, of autograph collectors almost the earliest times when any thing like the modern system of chirography became collections of autographs have been common, made in Europe. As a matter of course, diplomatic correspondence has been very well pre-served among the archives of many states. The private letters of ambassadors and states-men have also been well taken care of, and are retained, in numerous instances, by their descendants. The correspondence of illustrious commanders, of royalty, of authors, of artists, of lawyers, of medical men, of men of science and philosophy, and of divines, has been respected much more than might have been expected, from the want of what is called clerical learning in the later days of mediaval history. Autograph collections cannot be said to have Autograph collections cannot be said to have commenced before the 16th century, though earlier signatures of royal and other personages have been preserved, and Magna Charta the original of which is in the British museum in London, granted as early as 1215, shows that neither King John, nor, with scarcely an exception, his nobles, could write their own names. The clergy were the learned men of that period; and down to a much later date, so uncommon, then, was the art, that in numerous cases, on conviction for crimes less than capital cases, on conviction for crimes less than capital, the culprit was liberated without punishment, for a first offence, on showing that he could even read. Hence the laction called "benefit of clergy," which remon law of England when, like "trial by the hand," it was a writer in "Notes and lections of autographs laws. lections of autographs l many about the middle of "where travellers carried with paper books to obtain the sign nent persons, or of new acquain a book was called an album, hor rum, or thesaurus amicorum. The the British museum is dated 1578. pears to have belonged to a elder D'Israeli, in his "Curi ture," enlarges upon a the antiquary, had no

distinctness of character in the has several of the British sovereigns. sons, it should be added, have collected autographs, with a view of the natural character by the writing not be doubted that, in many interests temperament will influence the w e certainly has something to pressing into the signature something the character of the writer's mind. On hand, particular training will interfavorent this. There is no character in the contract of the c of Sir Walter Scott or Henry Macket having had their hands severely disayouth, by copying law papers. The and Robert Southey each wrote wis attention to elegance of appearance, t ration of their compositions being en their writing itself. Thomas Campbel their writing itself. Thomas Campbel wrought out with much care, is illu the pains which he devoted to his n Samuel Rogers, who corrected until t nearly wore out the thought, wrote wi care of a schoolmaster setting a coppupils. The dash and spirit of Byrn seem to have been infused even in writing. Wordsworth shows in homeliness. Cobbett wrote a had and impressive as his own argument hart's rapid writing would seen to equal rapidity of thought. The will English chancellors, who came in dies sion, illustrates the idea of changes. Eldon, slow and sure, wrote a car formed hand. Lord Lyndhurst, industry, ever willing to avoid and able to accomplish whatew himself to, writes in a carelon t every letter legible, however la Lord Brougham's vigorous a vigorous tamped itself upon his autogra like any other. Among American and well-known signature of George Va singularly shows native dignity, acter, and unconquerable firms military commanders, the sutoppliam III. and the late duke of which much resemble each other is a

of the letters, are alike also in the of hauteur and command. Some of that of Dr. Chalmers, is almost as strawl. For the most part, the less statesmen are good pension. It marked a contrast in the tail and feture of William Pitt, and the care Charles James Fox's, as there was be men themselves. Canning, Grey, it Peel, and Palmerston, have large as natures, with graceful corvers as posted from cultivated minds, which perplexity of politics, still delighted the letters and to art. The Todor resimonarchs wrote boldly and by acception of James place, place

and have usually written well. well-formed, but stiff sign manbeorge II. resembled it in form, s less firm. George III. wrote and handsomely-formed d, free, and handsomely-formed IV. had a magnificent signature. orge R. was composed of tall, written in one word without once from the paper. A tory writer Magazine, enthusiastic There is about the whole effect nently graceful, composed, and hat, compared with the hideous oleon of the late emperor of in the most striking manner, ce there is between the uneasy per, and the calm majesty of a he signature of William IV. was ig, and feeble, though preten-Victoria writes a large, stragt her signature is beautifully ach letter clearly cut, and unbreathing through the whole. trast are the signatures of the s; the first was a mere scrawl, rote all the letters of any word, as he to put his thoughts upon son (the Duc de Reichstadt) air, handsome hand—not unlike ilippe. His nephew, the present better than most Frenchmen. maing hand, very legible, eviwith rapidity and ease, and the lating in a close flourish. Of all roost valued and among the most. nost valued, and among the most hakespeare. His name is thrice st will and testament, deposited amons, in the city of London.

do not greatly resemble each
they must have been made at if not actually with the same nuine, beyond all doubt. His o attached to two parchment e library of the city of London the hands of a private gentle-One of these is the conlon. arty purchased by Shakespeare, iars, London, and the other a se upon this said property, exerter he had bought it. These st be authentic. Another, as-takespeare's own, is to be seen f a book in the British museum, y of which rests entirely upon the known signatures, for there r even tradition, that the voluments in the British museum, valuable collections, bepurchased for that national inmost complete and extensive
The Cottonian, Harleian, and
ipta, would of themselves alpraise, but these formed but
d every year sees the number
are open to all, and, as mate-

rials for history, have been found of great value. Almost every capital in Europe has a national collection of autographs,—the most valuable being at Rome, Madrid, Paris, and Vienna. The archives at Washington, which contain the declaration of independence, are full of increasing interest. The number of full of increasing interest. The number of private collections is considerable, and much expense has sometimes been incurred in illusexpense has sometimes been incurred in illustrating them. It may be stated that those who ride the hobby of collecting autographs generally do it with a higher purpose than mere curiosity. Whatever the original inducement, whenever the pursuit ripens into a passion, augmented knowledge, historical as well as biggraphical is the wealth. ographical, is the result. A genuine collector is not satisfied with an autograph until he obtains as much information as possible concerning the writer. Very frequently the letter or document itself contains something which or document itself contains something which illustrates a doubtful point of history, or throws light upon an obscure passage of biography. The largest private collection of modern times, in England, was that formed by the late William Upcott, of London. Upon his death it was sold by auction, and dispersed. Sir Richard Phillips was a great collector, and claimed to be the first of the tribe. "It is certain," says Catharine Hutton, "that he was in possession of reams of these precious relics, each arranged by the alphabetical name of the writer. He was so well aware of their value, at a time when they were little thought of by others, that he has been heard to say he would as soon part with a tooth as a letter of Colley Cibber's; and that he expected a grant of land in America part with a tooth as a letter of Colley Cibber's; and that he expected a grant of land in America for a manuscript of Washington's." There is another good collection in London, the property of Mr. Donnedieu, a Frenchman. Mr. Robert Cole, also of London, has a splendid collection,—probably the largest in England, though he may be challenged by Mr. Dawson Turner, of Great Yarmouth (surviving brother of the late Sharon Turner, the Anglo-Saxon historian), and the Rev. Dr. Raffles, of Liverpool. These gentlemen have collections, each worth many thousand pounds, and the arrangement of their treasures is at once simple and complete. In Scotland, where autograph collectors are nutreasures is at once simple and complete. In Scotland, where autograph collectors are numerous, an Edinburgh bookseller, Mr. W. F. Watson, is confessedly the most successful and enterprising. Though a great portion of his treasures were obtained by exchange and gift, he has expended £15,000 on the purchase of rare autographs, and costly portraits, views, mans and title perces to illustrate them. In the maps, and title-pages to illustrate them. In the United States, perhaps, the most extensive collection has been formed by the Rev. Dr. William B. Sprague, of Albany. In 1828 he commenced B. Sprague, of Albany. In 1238 he commenced his collection, and, much about the same time, Mr. Gilmor, of Baltimore, entered upon the same field. Mr. Gilmor's collection, which was very fine, has been much increased by Mr. Dreer, of Philadelphia, who purchased it. Other eminent autograph collectors are Mr. Tefft of Savannah, Mr. Cist of Cincinnati

Sprague's mode of arrangement is twofold,
—one alphabetical, the other according to subjects, and one being to a great extent a duplicate of the other. He possesses (what is excate of the other. He possesses (what is ex-tremely rare) complete sets of the signers of the American declaration of independence, framers

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Oharta, now in London, was actually in a tailor's handa, for the purpose of being cut up
into parchment measures, when it was resoued
by an antiquary who fortunately knew its
value, and preserved as an object of national
interest and importance.

AUTOLYCUS. I. A mythological character
of ancient Hellas acon of Hermes and Chione

Charta, now in London, was actually in a tai-

American declaration of independence, framers of the constitution, generals of the revolution, and, with a very few exceptions, of the members of the old congress. Autograph collectors ought to be held in esteem, as often saving from oblivion or destruction many documents of great value. The original of Magna

the city, saluted the emperor, sad un the latter after flying round the resu to its master. But the love of thes has no doubt greatly improved used the earlier inventors. The last

which acquired any celebrity was m bertus Magnus, in the 18th century, like a man and even spoke. Then is said to have been so alarmed by

is said to have been so alarmed by broke it in pieces with his staff to grief of the unfortunate invest

the former or which is said to have i

only exclaim—Periit open trigials a also, you have destroyed the work of Another similar invention of Ducar he named his dangles.

he named his daughter Francina, she ilar fate; the captain of a vessel et which it was placed, thinking the de in a machine that moved so like a

ing, had it thrown overboard. Coreceived from Haroun al Rashid a water clock, in the dial of which a

ed at each hour, and when at noon were all thrown open, as many l horseback issued out, paraded rouse and then returning shut themselve

AUTOLYCUS. I. A mythological character of ancient Hellas, son of Hermes and Chione, father of Auticlea, and thus maternal grandfather of Ulysses. He was an incorrigible thief and liar. His robber's lair was Mt. Parnassus. He stole a flock of sheep from Sisyphus, but their owner had taken the precaution to earmark his sheep and he got them back again. He broke into Amyntor's house and stole his armor. II. Of Pitane in Rolis, the earliest of the

and then returning shut themselve A very amusing automaton groups structed by M. Comus, for Louis XI ing of a coach and horses, coachman, a lady inside. The figures all parts appropriate parts; the coach was dethe king and stopped, and the lady, the page, presented a petition, and the carriage was driven off. Next to Vancanson, who lived in Parts the a

mor. II. Of Pitane in Æolia, the earliest of the Greek writers on the sphere, lived about 340

AUTOMATON (Gr. avros, self, and μαss, to move), self-moving machines, or those which have within themselves the moving power. This description would make the term appli-

Inis description would make the term applicable to watches, musical boxes, &c., but it is generally used to designate only those machines which are made to imitate the motions of men and animals. Those constructed to imitate men are sometimes called androides, from the Greek words, meaning like a man. In ancient times, Vaucanson, who lived in Paris the e the last century, appears to have be of the greatest skill in this departm hibited in Paris in 1738 a flaggold a rine player which is reasonable to the property of the pr rine player. which is probably the sandroic ever constructed, as his doubt the most perfect automates the fit olet with the left hand at

before the real value and true purpose of me-chanical uity were understood, this, when

y usveloped, appears to have taken

1 th the right,

its mechanism it was constructed in 3—as in the wings—as nearly like those ne bird as possible. Vaucanson unnear the close of his life, to construct which would display all the meof the circulation of the blood, the d arteries in which were to be of gum-out the art of working this material was a well understood, and there being long the arrival of an anatomist sent by IV. to attend to the work, Vaucanson discouraged and gave it up. The father 1, named Droz, had the same remarkable The former made a figure of a child, ats at a desk, dips its pen in the ink, and in French whatever is dictated. The born in 1752, went to Paris at the age of king a female figure he had made, which a different tunes on the harpsichord, followwith her eyes and head the notes in the is book, and rising at the close and saluting company. Vaucanson, seeing some artificompany. Vaucanson, seeing some artifi-hands he had made for a young man who host his own, said to him, "Young man, hear his own, said to him, "Young man, the begin where I should be willing to end." cut the same time the abbé Mical made a mber of automaton figures, some in a group, the played different instruments of music. also exhibited at the academy of sciences two which articulated syllables. Maelzel in carly part of the present century exhibited femous automaton trumpeter at Vienna, hich played many of the French and Austrian practices. Still later is the automaton of the praious Swiss mechanic, Maillardet, a folio figure that performs 18 tunes on the moments of the finrs and eyes and heaving of the bosom. It nationes in action for an hour: with it are an stomaton magician; a boy that writes and saws; a little dancing figure, that moves to make from the glass case it is in; a humming ird, that comes out of a box, sings and re-rue; a steel spider; and a hissing serpent. be famous automaton chess-player is an ingelove piece of mechanism, but there is no doubt was constructed to contain a small person, by e intelligence the movements were conolled and the game played. The doors of the achine were opened apparently to expose whole interior; but they were never all sened at the same time. A small person and thus move from one part of the interior another, keeping himself concealed. Such a s, known to be a skilful chess-player, travel-

the known to be a skillul cness-player, traverd with the exhibition, and was never seen aring the continuance of the game.

AUTONOMY (Gr. auros νομος, a law to itseph, an expression which belongs to the phisophy of Kant. When this philosopher affirms autonomy of the reason, he means that in inference to morals the reason is sovereign; that the laws imposed by it upon our will are niversal and absolute; that man finding such the way within himself becomes in some sort his was legislator and a law to himself. It is in this

property of our nature, that is, in the sovereignty of duty, that Kant makes the true character of the liberty of the will to consist. On the contrary, he calls by the name of *heteronomy*, the laws which we receive from nature, the violence which our passions and desires exercise upon us.

AUTOPLASTY, a surgical operation by which the nose or other superficial portion of the body, being destroyed by accident or by disease, may be renewed or replaced by a por-tion of skin taken from another part of the same body. This art is said to have been practised in India from time immemorial. It was a custom to punish crime by cutting off the nose, or the lips, or the ears of the criminal; and for a time the parts were immediately replaced and found to grow again. To prevent this the ex-cised parts were destroyed by fire; but the fact of the natural part adhering after it had been excised, and healing as a common wound, suggested the idea that a portion of skin removed from any other portion of the body, and applied immediately to the mutilated part, might heal and become a natural substitute for the part removed. When the pace was out off by the armoved. When the nose was cut off by the executioner, the surgeon cut a triangular portion of skin from the forehead, leaving it still attached by a small pedicle over the root of the nose, and, twisting it round, reversed it over the nase are region to supply the place of the nose which sal region to supply the place of the nose which had been cut off. The skin adhered and the deformity was lessened, but a scar remained deformity was lessened, but a scar remained upon the forehead where the skin had been removed. This method was adopted in other countries, where the nose, the eyelids, or any portion of the face, had been injured by accident or by disease. Celsus speaks of nasal and labial autoplasty. In the 15th century this art was practised in Calabria by the Branca family of surgeons, who introduced the practice of taking a portion of skin from the arm to replace a deformity in the face instead of transite and moved. This method was adopted in other formity in the face, instead of turning over a piece of skin from the immediate neighborhood of the part repaired, leaving a scar close by almost as bad as the original deformity. In the following century Lanfranc, an Italian surgeon, practised the art of nasal autoplasty with success in Paris; and the celebrated Gaspard Tagliacozzo practised the same art in Italy, and wrote his work on the art of autoplastic surgery, which is still in good repute. In the beginning of the present century this art, but little practised, and present century this art, but little practised, and almost abandoned, was revived by the celebrated English surgeon Carpue, and has been much improved by Groefe, Dzondi, Delpech, Cooper, Dupuytren, Roux, Lisfranc, Blandin, Velpeau Lallemand, Dieffenbach, and other celebrated surgeons of the present time. New method have been introduced and almost any surger have been introduced, and almost any superficial portion of the body may be now repaire by autoplastic surgery. Three methods by autoplastic surgery. Three methods adopted, the Indian, the Italian, and a French, and one or the other is preferr according to the parts involved. The Indimethod, already described, consists in turn

over a contiguous portion of skin to repair the deformity; the Italian method consists in taking a portion of skin from the arm, or from a distant portion of the body, to repair the injury; the French method consists in loosening the skin on either side of the injury, so as to de-tach it from the parts beneath, drawing it to-gether until it covers the lost part, and then French method consists in loosening part, and then uniting the borders by suture pins and ligatures, until the parts adhere and grow together. This is far the best wherever it is practicable.—The resources of this art are now very considerable, but skill is required to operate well, and judgment to decide when practically useful; for, where the general health of the patient is unfa-

vorable, the operation may be unadvisable.-Different names are given to the operation, according to the parts repaired by this method: it is termed "blepharoplasty" when applied to the eyelids; "otoplasty" when applied to the ears; "rhinoplasty" when applied to the nose;

"rhinoplasty" when applied to the nose, oplasty" in reference to the lips; "genoplasty" in reference to the cheeks; "kerato-

AUTOPSY (Gr. auros, self, and owes, vision, signifying to see for oneself). The term is applied to a methodical inspection of the corpse, in order to discover the cause of the diseas which terminated fatally. Necroscopy would, perhaps, be a more appropriate term, but autopsy is the word commonly used. The art of post-mortem examination is at once the result and the means of obtaining a correct knowledge of normal and pathological anatomy, as a basis for surgical and medical art and science. It is also useful in determining the cause of death, where legal proceedings are involved. Infanticide, suicide, and various kinds of homicide, can only be detected, in some cases, by a post-mor-tem inspection of the corpse; and many legal points require the nicest discrimination of facts connected with such cases to guide the magistrates in their decisions with regard to innocence or guilt in persons implicated by suspi-cion.—Autopsy is either authorized by the family of the defunct, who var to know the nature d death; and extent of the **h** . • or by the magistraces, so death, where mystery au the law to interfere. In all abou a. autop sy is generally performed ı, bat in the latter sometimes a ordinary post-mortem examu skin is carefully divided in the cen the chest, or the abdomen, the parts are separated to allow inspe internal organs; and when that is u parts are carefully replaced, the skin se and no disfigurement remains. There is revolting or unsightly, therefore, in the opand the information gained is of ance to legal decisions, on the one ha science of pathology and

AUTUMN (Lat. autumam), the th son of the year, in the northern temper begins when the sun, in its apparent de es the equ the southern hemisphere, cros line; and ends at the period of the sen's p southern declination, or when he catent corn. This astronomical autumn begins Sept. 28, and lasts till about Dec. 21,1 popular language in this country sutu prises the months of September, October November. In the southern hemispher autumn takes place at the time of or

AUTUN, the chief town of a district department of Saone and Loire, France, pleasantly situated at the foot of a me well-wooded hills: the surrounding con rich in vineyards and cornfields. contains many antiquities. Massive and fragments of the ancient Roman wall stand; also, the so-called temple of an imposing proportions and solidity. Be there are 2 curious Roman gates, the of an amphitheatre, and just without the a pyramidal mass of architecture, but bly for sepulchral purposes, but in when antiquarians are in doubt. The town a several fine specimens of church a among them the cathedral of St. Lan among them the cathedral of St. Lam manesque in style, and the Chapelle zarre, interesting for its richly paint. Near Autun are the valuable coal be Epinac and Creuzoh. The epi-copal secity was once held by Talleyrand. Pop. 11.007 11,997.

AUVERGNE, an ancient province of now comprised in the department Haute-Loire, and Puy-de Dome. and productions. Upper Auvering u cludes chiefly the departments of C. Puy de Dome, is mountainous, wild, turesque, and has no other riches the pasturages upon which cattle are rain mountains which intersect it on a brea Cevennes, and lie in confused gro up several summits to the height of some of which are extinct volcano d'Or, the highest of them, is an a cone, and has its sides covered Lower Auvergne extends along a the Allier, and presents a continuof towns and villages, and of the hills and valleys of France, which dantly the vine, grains, and fruit was the native province of Green De l'Hopital, Pascal, Turenne, I and other distinguished Frenchem AUXERRE, a city of France left bank of the Yonne, capital ment of the same name. Its we

ment of the same name. steemed. Its manufactures ar erges, druggets, earthenwar

nain, with curious crypts, in which the counts of Auxerre. The streets d, and the city ill-built. Pop. in

NE, a town of France, department Or, on the left bank of the Saone, puth-east of Dijon. It has an ar-acks, and magazines, with manufac-ollen cloth and nails. Pop. in 1852,

F, ADRIEN, a French mathematician omer, born at Rouen at the begin-17th century, died at Rome, in 1690, or having, in conjunction with Picard, telescope to the mural quadrant. rented and applied to the telescope wire micrometer, on which he pub-atise, in 1667. Picard assisted him ag this instrument. Among other the micrometer, he observed and the diurnal variation of the moon's first explained by Kepler. Auzout leient optician and maker of tele-is observation and calculations of of 1664, suggested to Louis XIV. the founding an observatory at Paris, one of the original members of the sciences, founded in 1666.

K, Louis, a French physician, born n d'Ecroville, in the department of selebrated for the invention and pera new art of imitating anatomical s, which new art is technically called n French. In 1823, the faculty of as reorganized by the Bourbon gov-conformity with their desire to bring Te religious tone of feeling in the d to set aside the spirit of philosophy prought about the revolution, and sup man Catholic discipline in the schools sities of France. In the same year. of medicine were also reorganized system, and prejudices were revived ection. as it was believed that science scepticism in the human mind, and mee more than any other; but most owledge of the human body, and the This made it difficult to prose tion in the medical schools, and anasparations were in great demand as sable substitute. These were either or very scarce and very dear; and, new difficulties of state policy, Auived the idea of imitating anatomical s artificially, by making a soft pulpy of papier-mache, which might be run a, while in the liquid state, and be being easily broken or damaged by the invention was completed; d at St. n 80 perbodies and internal organs of animals and incts. See Anatomical Preparations.
AVA, Kingdom of. See Burman.

AVA, KINGDOM OF. See BURMAH.
AVA, the capital city of the Burman empire; it is styled, in the official documents of the country, Ratanapura, a Pali word signifying city of gems. The true Burmese name of the city is Ang-wa, meaning a fish-pond, because the original town was built around one. This word has been corrupted by Asiatic strangers into Awa, and thence by the English into Ava. The city is built on an island, formed by the Irrawaddy river on the N. which is into Ava. The city is built on an island, formed by the Irrawaddy river on the N., which is here 3,282 feet broad—the Myit-nge on the E., a rapid stream flowing into the Irrawaddy under the very walls of the city—the deep and rapid torrent of the Myit-tha on the S., an offrapid torrent of the Myit-tha on the S., an off-set of the Myit-nge—and, on the S. E. angle, a canal, through which the waters of the Myit-nge flow, dug to defend that face of the city. Ava is divided into upper and lower, or inner and outer towns. Exclusive of suburbs, the whole place is about 5½ miles in circumference, and is enclosed with a brick wall 15½ feet high and 10 feat thick: an embalkment of earth and 10 feet thick; an embankment of earth supports this wall on the inner side at an angle supports this wall on the inner side at an angle of 45°, and there is an apology for a ditch on the outside; the wall itself is kept in no repair. The inner town, or city proper, includes the palaces, royal pagodas, and other public buildings, among which are the arsenal and hall of justice. This, the government quarter, is surrounded by a well-built and well-kept wall 20 feet high; and the wall, in its turn, is defended by a strong teak stockado of the same height; for the people of Ava are much addicted to angry risings and royal assassinations. The population is constantly fluctuating, by reason of changes in the government, removals of the of changes in the government, removals of the capital, foreign wars, and domestic distribution to will generally be found rising and falling between 80,000 and 50,000. From the ame causes results the temporary character of the houses.—The appearance of Ava. Her that of all Burman towns, is pictures in inity to gilded pagodas and carved management and that imposing when regarded from a listance. But on a nearer view the kinner of the sitter town are found to be, for the most part. While the ed huts, built of bamboos and name and had he ed with a kind of long mane grass: in his are used in their construction, and her are ready to be struck, like wans, and remainst at a moment's notice. They we savariant there is a secure few feet from the ground. It allow from passages for the water after heavy mine: 1 he entire time shelter is americal to great antilior, if pigs, ducks, and mersh dogs. The continues of the chiefs and weathy men are present of the chiefs and weathy men are present are allowed to foreigners only and the first to be seen present a gram and prison the argument. Briefs and mortar are an indicate the argument and the first of the fi tives, for feer that they will then it had a like a season the government. The ring of the it Ave is superior to most lineman terminal than Light, et Ma

it is said to have been built by a Hindoo architect, from Madras. It is surrounded by a covered gallery, the outer walls of which are adorned with rude pictures, representing the birth, adventures, and death of Gaudama, beside scenes in the Buddhist heaven and hell. Ava contains 11 bazaars, or market-places, composed of thatched huts or sheds, wherein, however, all sorts of commodities, from the meanest to the most costly, are exposed for all sorts of which are made in Ava. from raw Chinese silk: common coarse in Ava, from raw Chinese silk; common coarse earthenware, unglazed, but of excellent quality, made in the city; porcelain from China; fine steel goods from Bengal; gold and silver orna-ments of native manufacture, very clumsy; images of Gaudama, of the native marble which Sir F. Chantrey declared was equal to the mar-ble of Carrara; rubies from neighboring brooks, of which, however, the king claims for his own behoof all that exceed a certain value; amber behoof all that exceed a certain value; amber from native mines; petroleum from the famous wells of the upper country; and quicksilver, vermilion, verdigris, dried fruits, paper, umbrellas, and wrought copper from China.—
Through the streets of Ava the docile and well-broken buffaloes and oxen of the country pass and repass continually, with carts and packs; the tough but stubborn penies of Pegu and Lao are used only under the saddle. At the capital the elephant administers exclusively royal inxury and ostentation. Among the royal titles, in addition to the peculiar one of the "golden foot," are those of "lord of the celestial elephant," "lord of all white elephants," "mounter of the sacred elephant," &c.,—by virtue of which his majesty is the acto royal luxury and ostentation. Among the knowledged owner of all the elephants in the kingdom. White elephants are so rare as almost to be a wonder even in Ava. It is seldom that the "golden foot" has possessed more than one at a time; and these are not wor-shipped, as is generally supposed, but merely regarded as an essential part of the regalia.— It has always been a custom of the Burman kings to hoard vast treasures in their palaces, which they will never suffer to be touched for other than their private purposes, except in alarming political emergencies. Once a month, Once a month, at the new moon, an in erses the streets of Ava. 0 or recite the 5 pri ments—recommendi their children, and their children, and be dutiful to their pa 1 significantly headed by saw 1 s carrying a rod in one hand and a rope other; the rear of the procession is bro by a drum and 2 gongs, a party of the guard, a led horse, an elephant carry which horseld, and 3 horses, bearing each a a tohe r chief herald, and 3 horses, bearing each ——
Ava was first made the capital about A 1364; the government was at that time moved thither from Panya. Probably no ot people have so frequently changed their seat government as the Burmose; any frivolous 1

text, of superstition or of royal capri for the change. Within the last 5 for the change. Within the last 5. Burman kings have shifted the capit The great Alompra removed it is The great Alompra removed it is boo, out of affection for his nat His successor, who was his son rem Sagaing, across the river from Ava, it death of his father was a bad omen is boo. The next "lord of the white brother to the lest reversed the brother to the last, removed the a to Ava, because it was the royal far move the capital. The bloody 1 who seized upon the throne in 178 court to Amarapoora, perhaps to get the scene of his unnatural crimes. ceeded by his grandson, who, by th his conjurors and star-gazers, im up his throne in Ava, which, by the quite superseded Prome, the anciwhose barbaric magnificence is his 1839 every substantial edifice in A stroyed by an earthquake; in come which Monchaboo, the birthplace o again became temporarily the cast Burman empire. But since that Amarapoora and Ava have been l the preference of the court. In Maha Bandoola, the great Burman ordered to take Calcutta, and bri ernor-general in golden chains to A was actually provided with the chain purpose. By the treaty of Yandab 1826, the Burman government agreeive a British resident at Ava, and a second s ney was accordingly delegated to t and dangerous post at the close of 1 he remained, in spite of slights a in constant danger of his life, till the revolution resulting in the war-Tharawaddi forced him to retire. the distinguished American mi we are indebted for an excellent copious dictionary of the Burms resided many years at Ava.—At 1853, of their second war with the the British government, having perience of the Punic faith of fused to contract another treaty wi of Ava, but contented them menace of signal retribution VADOUTAS

AVADOUTA
who practice a portion of the control of t

the much as this, but retiring to the banks of some sacred river, wait in patient, and oftentimes the most extreme hunger, for what is postuneously broad the people.

AVAL ISLAND, or BAHREIN, in the Persian and Island, and produces an abundance of dates and other fruits. It is surrounded by treal small islands, the chief of which are the chief of w

12

AVALANCHE (Fr. avalange). Upon the cipitons sides of lofty mountains, the bodies now, which accumulate, are sometimes liabecome loosened, and to be precipitated to become lovels. This often happens in Alps and Apennines, among which the that designates the occurrence originated, is still used with various modifications, weral different forms of avalanches are deone is the drift avalanches are delibed. One is the drift avalanche, which is light, dry snow swept from the mountains strong winds, and accumulated in the valleys, metimes to such depths, as to bury the vilges it falls upon. Persons have been taken out Twe from beneath these avalanches after being But more terrible and deructive are those formed by the damp, cohering low, which, beginning in a small rolling body, ther with every turn increased proportions nd velocity; and taking up in their progress occs and earth, or the shattered limbs of rees, rush downward, clearing away forests, and sweeping off not only houses and villages, and the very lands on which they stand. Fright-networks of this nature are recorded in ful catastrophes of this nature are recorded in the histories of the inhabitants of the mountain-ous regions of central and western Europe. In the year 1500 it is stated that 100 men were buried by one of these avalanches in the Great St. Bernard; and in 1624, in the Italian Switzerland, 300 soldiers were thus ingulfed; many of them, however, were afterward dug out alive.
The villages in the high valleys of the Rhone, have been particularly exposed to these disasters —In the memoir of the Rev. Joseph S. Buckmin-ster, which accompanies the volume of his sermons, is an interesting account of the awful ava-lanche which occurred in the Canton of Schweitz, in Switzerland, on Sept. 3, 1806, destroying the villages of Goldau, Busingen, and Rathlen, only a week previous to his visit to this locality. A projection of the mountain of Rossberg, called the Spitzberg, which rose about 2,000 feet above the valley and lake of Lowertz, became loosened from its foundations in consequence of long-prevaiing rains; and the strata inclining with the slope of the mountain toward that the slope of the mountain toward the bovely valley below, the huge mass slid down-ward like a mighty ship launched upon its ways. At the base the sandstones and lime-stones, which with their loosely cohering strata ande this mass, broke with the shock into fragments, and spread with greater rapidity than

currents of lava, and with as fearful destruction to all objects around. In less than four minutes, it is said, three villages were completely overwhelmed, with portions of two others, and more than 1,400 of the peasantry were buried alive. A tract, 3 miles square, of one of the most delightful velocity in the square waste. Bude stantly converted into a barren waste. Rude heaps of stones and earth covered its farms and heaps of stones and earth covered its farms and villages, lying in desolate hills in the centre of the valley. They spread across to the opposite mountain of the Rigi, climbing far up its sides; and a portion of the falling mass plunging into the lake of Lowertz filled up a considerable part of it, and sent its waters rolling in an impetuous flood over its picturesque islands and shores. The village of Seven was submerged, and one of the largest houses in the place was lifted up and removed half a mile. To the traveller along the boundary of the To the traveller along the boundary of the ruins, a constant succession of melancholy views were presented. Fragments of wooden cottages were seen bristling among the piles of earth intermingled with thousands of shattered trees, torn up by the roots and projecting in every direction—a range of peasants' huts overthrown and crushed, and only partially cover--water-mills dashed to pieces by huge rocks, and the streams that carried them diverted into new channels. Birds of prey hovering over the valley continually, recalled the saddest feature of the scene—that beneath these ruins hundreds of wretched beings were hopelessly entombed. In 1827, the village of Briel in Obergestelen was almost entirely covered with an avalanche. The rolling avalanches some-times change in their descent to sliding masses, and these take in their progress every movable body down to the solid rock of the mountains. Hills of gravel and loose rocks, covered with forests and dwellings, are thus carried down to lower levels, and in cases of vineyards thus removed, intricate questions of proprietorship have arisen. The glaciers are also another form of avalanche, which will be described under that term.—Sliding masses of earth and rock, that term.—Siding masses of earth and rock, loosened by the rains or by the thawing of the frosts, are a form of avalanche not uncommon in this country. Such was the avalanche, which on the night of Aug. 28, 1826, descended the alope of the notch of the White mountains, and overwhelmed the family of Mr. Willey, consisting of himself and wife, 5 children, and 2 hired men. A rain storm of terrible violence has a property of court and loosened the covering of court and covering the covering of covering the covering of covering the covering of covering the covering the covering of covering the co loosened the covering of earth and loose rocks and the vegetation upon it in numerous places along the mountains; and the slides of this night laid bare the bald rock in some points extending over 100 acres, where it had never before been seen. In the Notch one of these avalanches appears to have come down directly toward the house, which stood in the narrow gorgo through which the Saco river flows. Above, it was parted, however, by some obstacle and came down in two bodies, one each side of the house, leaving this unharmed in the midst of

its track. The family, terrified by the awful commotion, sought safety without, but were all buried in the midst of the rocks and the ruins of the forests brought down with them. The bodies of all but two children were afterward dug out shockingly mutilated. The family that occupied the same house the next year, witnessed another avalanche somewhat similar. The night was intensely dark, and the rain poured in torrents down the sides of the mountain. In these gloomy recesses the roar of the thunder by night, seeming to shake the very mountains, is always terrible; but in this inance the noise of the elements and the vivid stance the noise of the elements and the vivid flashes of the lightning were mingled with the no less appalling crash of the falling rocks, and the light sent forth from their concussion upon the solid granite vied with the lightning in illuminating the awful grandeur of the scene.

AVALION, a town of France, department of Yonne, on the Voison, 26 miles S. E. of Auzerre. It is surrounded by a country renowned for fertility and beauty. It has considerable trade and manufactures of woollen cloths. Pop. in 1862, 5, 922.

oths. Pop. in 1852, 5,922. AVANT LA LETTRE was originally an engraving struck off from the plate to serve as a proof for the artist himself, before he deliverable to his publisher. It received its ed the plate to his publisher. It received its name from the fact that such proofs had no inscriptions. In the zeal of amateurs to obtain finer copies than the merchant could furnish, recourse was had to the artist to obtain from him these first proofs. Publishers wishing to share the benefit which the engraver thus often share the beneat which the engraver thus often illicitly obtained, also struck off what were termed proofs seemt le lettre, and the abuse was carried so far that sometimes this name has been given to as many as 300 impressions.

AVANZI, JACOPO, DA BOLOGRA, an Italian painter, who flourished about the latter part of the latter part of

the 14th century, and studied under Franco da Bologna. Several of his works in the Chiesa di Mazzaratta in that city were much praised

by Michel Angelo.

AVARS, a Finnish, Scythian, or Mongolian tribe, that appeared about a century after the Huns from the Caspian, along the Volga to the Don. Part of them remained around the northern Don. Part of them remained around the northern alopes of the Canca us, while others penetrated in A. D. 555 to the Dannbe and settled in Dacis. They served in the narrow Justinian alied themselves with the Longobards against the Gepidse, and finally occupied Pannons or modern Hungary, and established their dominion over all the Slavi along the Dannbe. Their sovereigns were called khans. The mightiest among them was Boian, whose dominions extended on both sides of the Dannbe to the Black sea. He is often monthoned in the Brack sea. Black sea. He is often mentioned in the By zantine histories, as the eastern emperors tree bled before him, and paid him tribute. The Avars were cruel oppressors of the tribes subdued by them. The Slavie women they used, not only for their harems but for horse, obliging them to drag the wagons in which they

journeyed. They seized Dalmstie, m into Italy and into the heart of Ge 640 the Slavi revolted, and the dom Avars over them came to m were still powerful and dangered occupying the lands forming Arriver Enns. They allied themsel silo, duke of Bavaria silo, duke of Bavaria, against C this put an end to their d weakened by divisions among the khans. One of them, Tudum, jelest magne, and was baptized at Aix is 0 but again abandoned the t him until he was take beheaded. After several succe ful campaigns against the Avan considered among his bloodiest, stormed their celebrated walled after another, and in 799 overthe most entirely. These celebrated most entirely. These celebrated rings, and whose remains, under Avarrings, are still to be found near the river Raab, were surroundly palisaded walls, forming an chain over the whole country. Ithe Franks of Charlemagne four About About 2027 the Avarradies About 827, the Avars di booty. from history, being absorbed by on the north and the Petchinge corbed by t The Avars have been confounds forerunners, the Huns, and with sors, the Magyars, a confusion as of them having been of the same France of the same

TATES:

ian, or Mongolian origin.

AVATAR, a Sansorit word, descending," usually applied in a sand in reference to the incornation deities. Whence the doctrine of rived is a point that has received: solution. The most important ave one of the persons of the Hinds the first man, during a delu-toise, when Vishnu supported the gods and the Asuras extracted t drink (amrita) from the sea; 3, which he slew the chief of opponents of the gods; 4, t which he killed the decesses brother; 5, the dwarf, in which a trick on King Ball, of who much ground as he could make much ground as he could and the king havin god, at once manifesting earth, air, and heaven; a the son of Jamadagni and coed the Bramins from Kshatriyas; 7, Rama, ti tha, when he destroyed Sanserit epic of Ramaya ploits; 5, Krishna, the when he assisted the f inst the Kee of the earth-this is



in which he persuaded the ancient enemies of the gods, to made their fs h in the Vedas; 10, Kalki, the man of the avatar of Vishnu, when he The fables of the Hindoo mythology, those of the ancient Egyptians, are believed the larned to be the husk of many element—that of moral and physical science.

VATCHA, or AVATCHKA, a fine bay and the S. E. part of Kamtchatka. Pet-paulovski lies here, at the mouth of the

AVATCHINSKAYA, or Mount Avatcha, the Kamtchatka, in lat. 53° 15' N. and 158° 50' E., rising to an elevation of 165 feet. It has a crater at its summit several and an elevation of 5,000 feet. Its st-recorded eruption occurred in 1827, when discharged with great violence vast quanti-

AVE MARIA, a short prayer much used in Roman and Greek Catholic churches. The first clause is the salutation of St. Elizabeth to

distributed by the salutation of St. Elizabeth to the Bland Virgin, with the names "Maria" added. The second clause is an employed by the fathers of the Ephesus and the people generally to express their joy at the decision of the question raised by Nestor, whether Mary is must be mother of God. It is usually joined with the Pater Noster.

AVEBURY, a village in Wiltshire, England, notable as the site of the remains of the largest Drudical temple in Europe. In an open plain, free from trees, 650 blocks of stone, with the patent of the store, were brought together. One hundred of these were set on end round an area 1,400 feet in diameter; and one hundred of these were set on and round an area 1,400 feet in diameter; and these were enclosed by a ditch and mound with 2 breaks for openings. The area within the bank is over 28 acres. From the arrangements it has been conjectured that there were within this great circle 2 smaller circular temples, beside 3 avenues of great stones leading to the entrances from a distance of more than a mile. Mot far from the temple is the great artificial mound of Silbury hill, whose base is 5½ acres, and height 170 feet perpendicular. The actual remains of this great monument are very much minished. The mound and ditch remain, that a constant removal of the relics has been steadily going on ever since, and in a very few years hence all will be gone that is capable

AVEDIK, a patriarch of the schismatic Armenians, became notorious at the beginning of the 18th century for his persecutions of the Boman Catholic population, and at the request of M. Ferriol, the French ambassador at Constantinople, he was expelled from his office and from the country. While on the way to Scio, he was saired by his opponents shipped off to from the country. While on the way to Scio, he was seized by his opponents, shipped off to

Messina, and put in prison, where, it is thought, he remained for the rest of his days. When this act became known in Constantinople, the sultan laid the blame at the door of the French ambassador, who, in order to clear himself from all responsibility in the matter, undertook to procure the release of Avedik and his return to Constantinople. But this was never done, nor would the name of Avedik ever have been deemed worthy of so much attention, if some imaginative, romantic Frenchman had not circulated the story that Avedik had not been shipped to Sicily, but to Paris, and that, in fact, the mysterious man with the iron mask was this identical patriarch of the schismatic Armenians. Unfortunately for this story, the iron mask man gave up his mysterious soul in 1703, while poor Avedik was still languishing in the dun-geons of Messina in 1707, little conscious of the ludicrous immortality which was in store

for his memory.

AVELLANEDA, GERTRUDIS GOMES DE, the most famous Spanish poetess of the present time, born in 1816 at Puerto Principe, in the island of Cuba, where her father, a native siland of Cuba, where her father, a native Spaniard, was commander of the fleet stationed in that harbor. She lost her father in early youth, and after the subsequent marriage of her mother with Col. Escalada, lived several months at Bordeaux in France. returned to Cuba, but after 2 years left it again for Europe, and lived successively at Corunna, cor Europe, and lived successively at Corunna, Cadiz, Constantina, and Seville, till in 1840 she settled at Madrid. Her Poesias Lyricas, published at Madrid in 1841, under the name of "Peregrina," introduced her into the circle of Spanish poets and writers, and were soon followed by her novels, Sab, Dos mugeres, Espatolino, and Baroneza de youx. In her earlier tolino, and Baroneza de youx. years she had made several dramatic attempts, years she had made several dramatic attempts, which had obtained the applause of her friends in Cuba, and she now wrote for the stage of Madrid the tragedy of Alfonso Munio, which was received with general favor; while she gained new laurels by her dramas of Princips de Viana and Egilona. In 1846, she married Don Pedro Sabator, a young politician and member of the cortes, who, however, died the same year while returning from Paris. The poetss in her affliction shut herself up for sevpoetess in her affliction shut herself up for several months in a convent, and even after her return to Madrid, refrained from society and from literature. Her next novel, El donativo del diablo, did not appear till 1849, and was quickly followed by a successful poem, La Cruz. The second edition of her lyrics, published the next year, closed with El ultimo acento de mi arpa, in which she took leave of lyric poetry; and she has since devoted her telent element acquisitely to the theatre. Of talent almost exclusively to the theatre. her numerous dramatic pieces, recently produced, the tragedies of Las glorias de España, and La hija de las flores, and the comedy of Simpatia y antipatia, have been especially well received.

AVELLINO, a fortified town, capital of the

province of Principato Ultra. This city was visited by an earthquake in 1694, from the effects of which it has never recovered. The Val di Gargano lies between Avellino and Benevento, famous for the triumph of the Samnites over the Romans in the year of Rome 443. Avellino has an extensive trade in chestnuts, hazel-nuts, and corn. Pop. 22,873.

AVENBRUGGER, LEOPOLD, the inventor of

AVENBRUGGER, LEOPOLD, the inventor of the method of investigating internal diseases by auscultation, born in Grätz, Styria, 1722, died in 1809. He first made known his discovery in a Latin treatise entitled Inventum Novum (1761), which was translated into French by Rozière (1770), and again by Corvisart (1808). An English translation by Dr. John Forbes was published in 1824. See Auscultation.

published in 1824. See Auscultation.

AVENTINUS, one of the 7 hills upon which the city of Rome was built, situated between the Tiber, Mount Cælius, and Mount Palatinus. This hill is celebrated in fable as the abode of the giant Cacus, who was killed by Hercules. Houses began to be erected on it in the reign of Ancus Marcius, and it was afterward adorned by the temples of Hercules, of Diana, and of Liberty. It bears now the name of Monte di Santa Sabina.

AVENTINUS JOHANNES, a Bavarian historian, whose real name was Thurmayr, but who adopted the Latin name of his native place, Abensberg, born in 1466, died at Regensburg in 1534. He wrote the annals of Bavaria (Annales Bojorum, first published by Hieronymus Zieglerus, in 1554, and the last edition brought out in 1710, by Gundling, at Leipsic), and the Othronicon Bavarias (Nov. 1522). These 2 works procured for him a high reputation, which his philological work, Rudimenta Grammatica Latinas (1512), tended to increase. In 1529, he was unjustly accused of heresy, and kept for some time in prison. After his release, one evening, after having read attentively the passages in the Bible which bear upon matrimony, he though it incumbent upon him, though he was 64 years old, to marry the first woman he happened to see. This unfortunately turned out to be a dwarfish, idiotic creature; but he married her, and passed miserably enough the 4 remaining years of his existence.

but he married her, and passed miserably enough the 4 remaining years of his existence.

AVENTURINE, a term in mineralogy applied to a variety of quarts, and also to one of feldspar. The peculiarity in each, for which the name is given, is the play of reflected or refracted light from numerous points in the mass of the stone—the reflections being bright and sparkling, and of different colors, while the ground may be translucent with little brilliancy, and of a dull color. The effect is probably produced by the crystalline faces in the structure of the stone refracting the light differently. There are, however, some varieties, called also aventurine, in which the play of colors results from the presence of numerous little scales of mios, or other foreign ingredients, each of which reflects the light, and all together produces a similar effect to that of the true varieties of aven-

turine. An artificial glass of this name formerly manufactured at Venice, which well adapted to ornamental purposes, a even more beautiful than the natural mine Within the glass were substances appear vitreous, of great brilliancy, of the old copper, and in very small crystals of the of tetrahedrons. These were probably per of metallic copper reduced and crystals of the glass. Such crystallization has been served to have taken place in the slag of a furnaces. The glass analyzed by Peliest 3.9 per cent. of copper, 3.5 per cent of iron, 2.3 per cent. of oxide of tin, and oxide of lead. The tin and iron aid and duction of the copper and the formation of crystals, and the former is converted in silicate of the protoxide, thus giving no quasi to therwise would to the glass.

AVENZOAR, an Arabian Jew, in the

AVENZOAR, an Arabian Jew, in the century, who practised physic at Sevilla a Cordova. He was the teacher of Avers AVERAGE. I. GENERAL, sometimes

or extraordinary; in mercantile l contribution made by all the parties con in a sea adventure to make good an eme loss sustained by one or more of them is benefit of all. The fundamental print the law of general average, as exp Justinian's Pandects, and adopted by mercial nations, though with consideral versity of practice, comes from the law, the first known system of mark which thus stated the rule: "If thrown overboard in order to lighten the loss incurred for the sake of all a made good by the contribution of a would be difficult to set forth the consti case for general average more clearly were recently stated in the supreme the United States (Barnard c. Adams, 1 270), Mr. Justico Grier delivering the "In order to constitute a case for grage," he says, "three things must A common danger, or a danger in wicargo, and crew all participate.—a diminent and apparently inevitable. voluntarily incurring the loss of a the whole to save the the whole to avoid the remainder of the sound to a void in the purpose of avoiding this imminual other words, a transfer of the p whole to a particular portion of 8. This attempt to avoid a committee of the posterior of the pos be successful. The right to contribute to depend on any real or provion to destroy the thing cost away sot that it has been selected to a place of the whole that the rue saved." Not only the value of estroyed, but what follows a management of its destroction, as in large code away as a fitting the value of the saveness of its destroction, as in large code away as a fitting the value of the saveness of its destroction. the port of a

by both the common and civil

e of which, on this point, has repealed in England), and in gen-r necessary and voluntary loss or curred by a part for the good of nally saved must contribute for in procuring temporary safety.

th ordinance, goods stowed upon
ressly excluded from the benefit, the burden of general average, supposed to hamper the vessel he danger; and such is the general the English and American law. of all three countries, however, 1 usage to carry upon decks as sting vessels, is allowed to take a operation of the rule. Both the d the American law is somewhat nan the English, as regards the sub-al average, but the difference cone nature but in the application of he victuals and ammunition of a ntribute in a case of general averaver is necessary to the persons of , as wearing apparel, &c., nor the their own safety, nor the crew for their own safety, nor the crew for set apprehension of personal loss hem from personal sacrifice. The vil law that "those things alone sight contribute," is, with slight e general law on this point. The bution is in proportion to the i, according to value, not weight. In which this adjustment is made that countries and are not well rent countries, and are not well It is a matter of such nice at in most commercial ports, the addjustment of general average ecial branch of business, attended l class of men. By the civil law, the vessel was required to see to provisions of the French ordinance similar, but are practically dis-k being performed by dépacheurs, lled. II. PARTICULAR, an almost rous expression, used to signify a hich must be borne by the imme-III. Petty averages are sunges borne in common by the ownand cargo, like pilotage, towage,

ht-money, quarantine, &c., Giuseppe (also Avekanius), an r, born in 1662, died 1738, celedefence of Galileo's philosophy nmentaries on Eutocius Ascalon's nimedes. His defence of Galileo's stained in his treatise entitled De orum gravium in planis inclinarimented upon burning mirrors. the swiftness and propagation of idied the phenomena of light and At the time of his death he had ost all the walks of human

, a lake in Campania, connect-row channel, with the Lucrine

lake. Strabo says that it was almost surrounded by steep and thickly wooded hills, and that its effluvia polluted the atmosphere. The ancients fancied that birds were invariably stupelake. fied and drowned whenever they essayed to cross it. According to popular tradition, Ulysses here made his descent to the infernal The forests on the Avernine hills were regions. dedicated to Hecate, and in them altars these vanished when Agrippa connected the lake with the sea and converted it into a harbor; and as soon as its hills were unwooded and its marshes drained, the mephitic atmosphere

its marshes drained, the mephitic atmosphere became purified.

AVERROES, ABUL WALID MOHAMMED EBN ACHMED EBN MOHAMMED EBN ROSHD, the greatest of the Moorish philosophers of Spain, born at Cordova, A. D. 1149, died in Morocco, either in 1198 or 1206. He studied law under his father, theology and philosophy under Thophail, medicine with Avenzoar. He was appointed grand mufti or chief judge, and filled the office first in Spain and afterward in Morocco. He was there accused of entertaining heretical opinions, and being summoned to Morocco, was deposed, and obliged to do public penance at the door of the mosque. He wandered into Fez and thence back to Spain, and continued the door of the mosque. He wandered into Fez and thence back to Spain, and continued in obscure indigence until the accession of the caliph Al-Mansoor, who restored him to his former position. Averroes wrote voluminously, there being as many as 78 distinct treatises of his in the library of the Escurial. He translated the works of Aristotle, for whom he entertained a profound veneration. His religious opinions were, that God, being the great and universal first cause, was the author of all human actions, but that men being free are neverman actions, but that men being free are nevertheless responsible for their obedience to the precepts of religion. His works embraced med-icine, philosophy, Mohammedan philosophy, and jurisprudence. They have been translated into Latin

AVERY, WAITSTILL, an American lawyer, and patriot of the revolutionary period, born and patriot of the revolutionary period, born in Norwich, Connecticut, died in Burke county, North Carolina, in 1821. He graduated at Nassau Hall in 1766, and after studying law in Maryland, removed to North Carolina in 1769. He practised his profession successfully; was appointed in 1777 attorney-general of North Carolina, and was at the time of his death the patriarch of the her of that state. He was also patriarch of the bar of that state. He was also prominent in the political affairs of the state, being a member of the state congress prior to the revolution, and of the state legislature after the establishment of peace. In 1777 he was appointed one of a commission to treat with the Cherokee Indians.

AVERY'S GORES, several tracts of land in Vermont, granted to Samuel Avery in 1791. One of them is in Addison county, nearly on the summit of the Green Mountains, now forming a part of Granville.

AVESNES, the name of a French arrondisse-

ment in the department of Nord, with 110,000 inhabitants; also a fortified town on the Helpe, with about 4,000 inhabitants. Avesnes is one of the many fortresses which protect France on the side of Germany, and which were built under the reign of Louis XIV. It is fortified according to the system of Vauban. By the terms of the peace of 1815, Avesnes was occupied by the allie

AVEYRON, a department in the south of France, forming a part of the old province of Guienne. It has an area of 3,429 square miles, and is subdivided into 5 arrondissements, 42 antons, and 259 communes; pop. in 1851, 894,188. It is one of the most mountainous districts in France. Aveyron has mines of cop-per, lead, silver, zinc, iron, and coal; the latter are among the most valuable in France. Cattle are raised in great numbers. The famous

Roquefort cheese is exported in large quantities.

Rodes is the capital.

AVEZAO. I. PIERRE VALENTIN D', a French ettler in St. Domingo, born at Tarbes, in 1719, died at St. Domingo, in 1781. He was destined by his father for the church, and studied in Paris until he was fitted to enter orders. He then conceived a disgust for his intended profession, and suddenly embarked, in 1748, for the island of St. Domingo. There he exhibited his talents as a lawyer and military officer, and having become a planter, distinguished himself by the enterprise and skill with which he cul-tivated his lands. He cut a road across the mountains from La Grande Anse to the Cayes, thus connecting his possessions in these 2 places; and having persuaded his neighbors to unite with him in an attempt to fertilize the without the as istance of an engineer, at an expense of £30,000, a canal 3 feet broad, and 9 feet deep, which, after extending a league, was divided into branches, and irrigated more than 9,000 acres of land, and supplied water power to 19 important manufactories. The work was completed in 1765, and was so much admired as to obtain for D'Avezac the patronage of the government in settling with the stockholders. II. JEAN PIERRE VALENTIN JOSEPH D', son of the preceding, a politician of St. Domingo, born in 1756, died in 1803. The waves of the French revolution reached to St. Domingo, at that time a French colony, and D'Avezac was one of the 85 deputies chosen by the planters in 1790 to resist the progress of the new ideas; and having embarked with his associates for France, they were received enthusiastically at Brest. however, eir conservative mission was not relished by the party in power in France, and having returned to St. Domingo, they were obliged, by the efforts of partisans of the revolution, and by the insurrections of mulattoes, to seal with their blood the cause which they had espoused. D'Avezac, after having lost, in the civil war which ensued, 2 of his sons and several other near relatives, escaped first to Jamaics, and then to New Orleans. He returned to St. Domingo in Clero, and died of grief a remnants of the former hich had been destroy III. AUGUSTE GENEVIÈVE VALE son of the preceding, an Ancivilian, born in St. Dossie He was educated in France with his family in the United S negro insurrections in his nativ studied medicine in North Cara practising physician in Virg ward, at the suggestion of his Edward Livingston, studied law distinction in his new profession leans. In the war of 1812 he as advocate and aid to Gen. Jacks he was appointed by Gen. Ja then president, as charge d'affair of the Netherlands. He subsequ his residence to the city of New he twice represented in the sta and again, during the administration of the faires at the Hague. IV. PINIER DOMINIQUE JULIES D', a younger Jean Pierre V. J. d'Avezze, a Fra and exile, born at St. Domi died in the United States, Feb. received a learned education in Fr the outbreak of the revolution sai tive island, vainly hoping to save possessions there. From the p moils and massacres he found New Orleans, and there passed his pursuits of a scholar. He read pieces of European literature in languages, and loved to translat one language to another. He version of the "Marmion" of Sir accompanied by a graceful letter, romancer, who was pleased with ment. He is also the author of official translation of the penal c

AVEZZANA, Joseph, an Its who, for many years, has found the misfortunes of his native es the misfortunes of his native. United States, and followed in in the city of New York, but at Chieri, in Piedmont, 9 in He joined the army of Napal was engaged in the campaign following year; upon the fixerenana colored the service. Sardinia, and was at Turin. After Napole prince joined the le Averrana, in the car posed to the leader b lowed the two previo upon his country and e thies. He continued until March, 1821, wh tion against the Aus

evolution had broken out at Naples: man, with a brother officer, and 100 bllowers, also revolted. They were and marched toward Alessandria, ified city had declared for the popu-The day afterward the citizens of Turin he king, unwilling to yield, and unable abdicated in favor of his son, Carlo hen prince of Carignano, who swore al constitution; the latter, however, d the reactionary party, a battle en-shich the republicans were defeated, ana and his companions were obliged te. He now offered his sword to m enjoying a constitutional govern-toward the end of April, 1821, en-captain of infantry, and continued to serve the popular cause, until his neountering an overwhelming force mountains of Almajaron, in the of Murcia, he was forced to surco the duke d'Angoulème's army, i come to the aid of the Spanish royal-re being a prisoner of war for several vezzana embarked for America, and New Orleans at the close of the year engaged in trade in the interior of for 2 years, and then with a view of his fortunes, visited Mexico, and a grant of land on the site of the ity of Tampico, then a wilderness. was rapid, and in a short time he handsome competence; but unfortu-lune, 1829, the place was invaded by sharmy, under Gen. Barradas; and n military experience and personal of Avezzana, caused him to be ap-aptain of the international citizen d subsequently of that of the state of The enemy's superior force made to the interior unavoidable; and he d thus to leave his entire property in of the Spaniards; when reinforced, he renewed the attack, and drove the o a capitulation, and by his influence resident merchants and local auwas soon enabled to reinstate himself revolution in Mexico under Santa nst the rule of Gen. Bustamente; it in Vera Cruz, in the neighborhood city Santa Anna was defeated at the Tolome, notwithstanding which, the of Tampico declared in his favor. 2,000 men were ordered by the govto march against that city. Avezto his principles, immediately abanbusiness, hastened to the fortifications, essful repulse, and was intrusted with ice by Gen. Montezuma, who, leaving to promote the revolution more ef-lsewhere, upon Avezzana rested the His meagre force making the posi-tful, by a rapid and most fatiguing th 350 infantry, 30 horsemen, joined VOL. IL.—27 on the way by 70 of the enemy's cavalry, he reached the state capital 80 leagues distant, and on the evening of Aug. 6, encamped near Ciudad Victoria, At daybreak he attacked the enemy; the action continued 4 hours, when the garrison surrendered, 1,000 men, including enemy; the action continued 4 hours, when the garrison surrendered, 1,000 men, including Gen. Ignatio Mora, their commander, became prisoners of war; 5 pieces of artillery and a large quantity of ammunition fell into the victor's hands; a reinforcement of the enemy on its way to Ciudad Victoria, fell back toward Matamoras, on learning the fall of that city, leaving exposed the important position of Soto la Maring, which Avergana hestened to occupy. Marina, which Avezzana hastened to occupy. His first use of these signal advantages was to reinstate the governor and legislature of the state, previously expelled by Gen. Bustamente; recall the militia he had dishanded and the with a force increased to between 1,800 and 1,400, march against Matamoras, which instantly yielded, and soon after the state of Nuevo Leon followed the example. Meantime, how-ever, Gen. Montezuma had been completely routed by Bustamente's troops at the Gallineros; and Avezzana retreated to Tula in the Cordil-Collecting the fugitives, he proceeded to leras. Collecting the fugitives, he proceeded to Valles on the river Montezuma, and at the end of Nov. 1832, marched against San Luis Potosi, then in possession of the enemy. This place he besieged, and for 22 days advanced from street to street, until the garrison capitulated. Soon after the treaty of Zavaleta confirmed the triumph of the liberals, and Avezzana resigned his command having been previously triumph of the liberals, and Avezzana resigned his command, having been previously named general of the state of Tamaulipas by Santa Anna, and of the states of Cohahuila, Texas, and Nuevo Leon, by Montezuma. He then returned to Tampico, and resumed his peaceful avocations. In 1884, however, he removed to the United States, and established himself in mercantile business in the city of New York, and soon after married a most New York, and soon after married a most New York, and soon after married a mose estimable Irish lady. Fourteen years of regular, and, on the whole, successful industry and domestic happiness passed, when the political excitement which convulsed Europe in 1848, seemed to promise liberty to Italy, and Avezana responded to the appeal of his country. On his arrival there he was immediately appointed commanding-general of the national guards of the city of Genoa. When Carlo Alberto's defeat at Novara, and abdication occurred, and the armistice with the Austrian general was signed by his successor, Avezzana, the national guards, and the people of Genoa protested, and urged a continuation of the war; a collision followed, and the troops of the corrier winds of the property of the corrier winds and the troops of the corrier winds and the troops of the corrier winds. the garrison yielded to the popular fury. A few days after, 80,000 men were sent against Avez-zana and his followers, by the Sardinian govzana and his followers, by the Sardinian government, with whom they sustained a desperate conflict during 4 days, when, his force reduced to a small band of patriots, he resigned the military government intrusted to him, into the hands of the municipal authorities, and withdrew on board the U.S. steamer Princeton, whose commander, Captain Engle, kindly received him and his devoted little band, and set sail for Leghorn, where they embarked in the U. S. steamer Alleghany, and were safely landed at Civita Vecchia. Thence Avezzana hastened to Rome, then under a republican government. The zealous ally of their cause, he was heartily welcomed by the Romans, and appointed minister of war by the government. Soon after came the news of the French expedition, and Avezzana had scarcely time to concentrate the troops scattered through the Roman states and prepare for the defence of Rome, when the French army reached the city. Having been previously appointed commander-in-chief of the army, the duties of Avezzana, at this crisis, were onerous in the extreme, but, by April 30, 1849, when the invading host appeared before the eternal city, all was prepared for their reception; and their attacks were successfully repulsed. For 2 months a small body of republicans kept at bay 4 Soon after came the news of the French expeditacks were successfully repulsed. For 2 months a small body of republicans kept at bay 4 samiles, together amounting to 100,000 men. Avezzana remained to the last moment of the struggle, and on the night of July 2, found refuge in the house of Nicholas Brown, the American consul at Rome, and a warm friend to the republican cause; he hospitably received and judiciously befriended Avezzana, who, on the following night, succeeded in reaching Civita Vecchis in disguise, notwithstanding the vigilance of the victorious army. There an vigilance of the victorious army. There an American consul's house again sheltered him; American consili's house again sheltered him; thence he wrote to the captain of the British man-of-war Bulldog, then in port, asking for himself and his 2 secretaries to be received on board. The officer hastened to Avezzana, and accompanied him with a safe escort on board his vessel; the French steamer Tonnère happened to lie near, and fearing a discovery, he immediately put to sea, and having stopped a few hours at Naples, proceeded to Malta, where he landed his guest in safety. Avezzana there took the oriental steamer on her way from Alexandria, in Egypt, to England; and, on reaching London, embarked for America, and arrived at New York, restored once more to the bosom of his family and the life of a merchant, at the end of August, 1849, having been absent from his adopted country (where he has ever since remained) precisely a twelvemonth.

AVIANUS, FLAVIUS, the author of 42 Æsopian fables in Latin elegian verse, of very inferior merit.

They were printed in Holland, separately, in 1494. Caxton had previously printed an English translation in 1483. The author probably lived about the 5th century. thence he wrote to the captain of the British

author probably lived about the 5th century.

AVIARY (Lat. acis, a bird), a place for keeping and breeding birds. Aviaries are often of large extent, enclosing trees, and artificially warmed, so as to furnish to foreign birds their native climate. Those for native birds may be only a frame-work covered with netting. Small aviaries are often found in gardens, attached to summer-houses or hot-houses. The exotic birds that are most frequently found in them are canaries, turtle doves, gold and sing ants, and birds of the persot and

AVICEBRON, an Arabi cited by William of Auvergae, Albert and other scholastics of the 18th at the author of a work entitled the " Life." The doctrine of Avid have been a sort of panthe Aristotelian philosophy, not prevent him from bei respect by the doctors of the William of Auvergne even suppor principles declared in his book, thad professed Christiania. had professed Christianity. losopher has recently been ides Spanish Jew named Salomon bea Spanish Jew named Salemon ben Galbrated in the synagogue as a hymne who died at Malaga in 1070. Them bron is derived from Ibn-Gabirol, by changes allowed by the analogies a guage. Avicebron is thus anterior celebrated Arab-Spanish philosophy was cultivate by the Jews before the Araba. His a ever, has remained unknown to the Manda have aniowed but all and he seems to have aniowed but all and he seems to have enjoyed utation, and to have exercise gians by the philosophical boldness he treated the teachings of Moss. fied the Aristotelian Jews by the which he made to orthodoxy recreation and the freedom of the his works are cited with applanse century by 2 Jewish philosophers. AVICENNA, And All ERY An Sina, a famous Arabian physicia

phys Afsenna, near Bokhara, 980, died He practised physic at the age of ceived the appointment of physical of the Samanide sultans of Bok sided both at Hamadan and Ispaha upon medicine and metaphysics, a of medicine, principally compiled fi writers, was in high repute with E drew from it their chief if not only

Galen and Hippocrates.

AVIGLIANO, a town of the Basilicata, in the hingdom of 9,670. It has a handsome collaroyal college, and several conve of the town was destroyed by

AVIGNON, a town ment of Vancluse, 40 on the Rhone, gant suspension t archiepiscopal ses sort and of comm public library of antiquities, tanical gar Its industry is tion of madder,

i, and taffetas, and in copper, lead, and in tearries on an extensive trade productions of the department, in grains, and highly esteemed in grains, and highly esteemed in generally well he form of an almost regular oval, alla, rather beautiful than strong, i with towers, adorned with battle-is streets are narrow, but there are t wharves along the Rhone and numerat and remarkable edifices. Among the palace of the popes, a sombre s the palace of the popes, a sombre icture of the 12th century, the for-ice of the popes of Avignon, built upon of Doms at one extremity of the one of its dungeons the Roman tribsuffered imprisonment, and it is now suffered imprisonment, and it is now into a prison and barracks. Above, on the summit of the rock, rises colitan church of Notre Dame desch was rebuilt by Charlemagne, and ains the tombs of popes John XXII. ct XII., also of several cardinals and re Gen. Crillon. The most remarked of this church is the doorway, elieved to be a remnant of a temple. The city hall, founded in 1858, is ith an ancient belfry and clock, and ith an ancient belfry and clock, and ith an ancient beliry and clock, and ge moving figures, one of which hours. Among the other older edihe Gothic church of St. Peter, the hich is a masterpiece of sculpture; of St. Agricol, with the tomb of the mard; and the Hôtel des Invalides, a garden open to the public. The lit in 1824, is one of the most splence. This city was the capital of the of the Cavares, prior to the conquest. of the Cavares, prior to the conquest Julius Casar. It remained under aination till the 5th century of our he Burgundians took possession of hose kings, pursued by Clovis, here memorable siege in the year 500. adians were expelled by the Ostro-in turn yielded it to the Franks niddle of the 6th century. The Sarair progress northward from Africa, 30 and 737, took Avignon, and at were forced to retreat from it by rtel. It was a Carlovingian city till ; several times exchanged its masters, republic under the protection of the apire, adhered to the Albigensian I was captured by Louis VIII. in made it the common inheritance of made it the common inheritance of In 1309, Pope Clement V., a nauce, at the request of Philip the Fair ould reside in France, established Avignon. The city and its depend-purchased by the supreme pontiff a of Naples, and the 5 popes from to Gregory XI., from 1309 to 1377, residence here; and during the a, from 1378 to 1418, one of the rival ys resided in Avignon. This was the

most brilliant period in the history of the city, when the papal court was visited by sovereigns who came thither to be crowned, and by ambassadors from distant countries. Here Petrarch first saw the beautiful Laura of Noves, whom he immortalized in his sonnets, and whose tomb is still reinted out in the city. At the tomb is still pointed out in the city. After the close of the schism and the transfer of the pontifical see to Rome, Avignon was governed by the legates of the pope, till in 1791 France succeeded, after various attempts, in reclaiming it. During the reign of terror it was the seem of the sanguinary exploits of Jourdan, and among the numerous victims of the reaction in 1815 no one was more illustrious than Marshal Brune, who was here assassinated. Twenty-one councils of the church were held in Avignon, from 1050 to 1725. The most impor-Avignon, from 1000 to 1725. The most important of these was that of 1209 against the Albigenses, that of 1326 against poisoners and sorcerers, and that of 1457, in which the crusade was discussed, proposed by Calixtus III. against the Turks, who had just taken Constantinople. The population of Arignon has diminated when the crust the constantinople. ished more than two-thirds since the era of its splendor in the 14th century. It then counted over 100,000 inhabitants, and it now has 85,890.

AVILA, a province of Spain, forming a part of old Castile. It has an area of 2,570 square miles, and a population (in 1849) of 132,986. The northern portion of the province is generally level, of moderate fertility, and the inhabitants are engaged in agriculture. The southern part is interested by supercess makes mountain part is intersected by numerous rocky mountain ranges, with verdant valleys between. Here the raising of cattle is the most important branch of industry. Two centuries ago the province was wealthy and populous, but it has gradually decayed, in consequence of the bur-densome manorial and feudal privileges, and the laws of entail and mortmain. Merino wool the laws of entail and mortmain. Merino wool the laws of entail and mortmain. Merino wool is the chief article of production.—Avila, the capital of the province, an episcopal city, is situated on the Adaja, 53 miles north-west of Madrid; pop. 4,121. It had formerly a flour-ishing university, and extensive woollen manufactures, but its ancient prosperity has departed. The city is encompassed by a wall, still in good repair, with towers of great strength. It has a fine old cathedral, and a Dominican convent, both of which contain some beautiful monuments. The church of San Vicente, without the walls, said to have been erected in 318, is an interesting object. Avila is the birthplace of St. Teresa de Jesus, the patroness of Spain.

AVISON, Charles, an English musician and author, born in 1710, died about 1770. He was a pupil of Geminiani, whose style he successfully caught, officiated for many years as organist at Newcastle, and beside composing a number of concertos and sonatas for full orchestras and harpsichord, was the author and editor of several important works on music. He brought out the first English edition of Marcello's music to the Psalms, and wrote an essay on musical is the chief article of production. -AVILA, the

expression, which, from his partiality for Geminiani and Marcello, to the neglect of Handel, excited a reply from Dr. Hayes, of Oxford, who attempted to show that Avison's knowledge of counterpoint was exceedingly superficial. Avison republished his book, with a reply to Dr. Hayes. His music is light and graceful, but deficient in force or originality.

AVLONA, a fortified town, and the best seaport of Albania, capital of the pashalic of the same name, situated on the gulf of Avlona. Pop. about 9,000. The Christian part of its inhabitants are chiefly employed in commerce. The Turks manufacture woollen fabrics and arms.

AVOCET (recurrirostra), a bird of the order of the grallatores. There is but one European and one American species, which are very closely connected, and would at first sight, by an unpractised eye, be pronounced identical. They are easily distinguished by the peculiar form of their long, slender bill, which is reflected upward at the extremity. It is webfooted, but does not swim easily or willingly, though it wades quite up to the breast, for which it is admirably qualified by its long legs, which are naked quite up to the head of the thigh. The principal use of the palmated webs of its feet appears to be the enabling it to stand and run, without sinking, over the soft mud and semiliquid ooze of the sea-shores, which it frequents. It feeds on aquatic animals, such as the smaller conchifers and mollusks, and on the spawn of fishes, which the peculiar form of its bill affords it peculiar facilities to gather. The American avocet, recurrirostra Americana, is thus described by Giraud in his "Birds of Long Island:" Loral space, white; neck and fore part of the breast, reddish buff; lower parts, back, and tail, white; wings, black, with a broad band of white, formed by the tips of the secondary coverts. Lower portion of the tibia naked. Legs, blue. Length 18 inches; wing, 9. A few breed at Egg Harbor, where they are known as the "blue stocking." It builds its nest of sea-wrack and dried sedge among tufts of long grass by the edge of some salt pool. It is common in all parts of the United States, especially in the fur countries.

AVOIRDUPOIS (Fr. accir de p
weight; or, possibly, as it was fo
arcrdupois, from the old Fr. v
verify), a standard of v
of merchandisc, sold by t t acc
except the precious met
cines. The pound avoirday common
grains; the pound troy common
ounces do not retain the same prop
there being 16 to the pound avoirdupous.
12 to the pound troy. The ounce av
pois is supposed to be the same as the R
uncia, which, according to Dr. Ar
contained the same number of g
but it is very unlikely these
been preserved uniformly the
a period. The old term a

met with A. D. 1532, in some orders of I VIII.; and in 1588, a pound of this wish deposited, by order of Queen Elizabeth, i exchequer, as a standard. This, what ined, in 1758, by the committee appoint the government, was found to be liggrificient in weight; and the troy wight thereafter made the standard. The stagrain, prescribed by act of parliament | reign of George IV., is such that "a cabi of distilled water weighed in air by weights, at the temperature of 62° Fabru thermometer, the barometer being at 30 is equal to 252.458 grains."

weights, at the temperature of 62 + rank thermometer, the barometer being at 36 is equal to 252.458 grains."

AVOLA, a Sicilian city, 13 miles 5. Syracuse, on the coast; pop. 6,780. I rebuilt after its destruction by the earl of 1693. The famous honey of Hybh produced in its vicinity. It has a tunsyl and a refinery for home-grown sursy.

of 1693. The famous honey of Hybn produced in its vicinity. It has a tunny and a refinery for home-grown sugar.

AVON, a post-township of Livingstenty, N. Y., 19 miles S. W. of Rochester; 1855, 2,694. The village is beantifully a on a plateau above the Genesee. The two mineral springs in the neighborhood resorted to by invalids in the summer. The waters are considered particularly be in cases of rheumatism, dyspepsia, an neous diseases.

neous diseases.

AVON, the name of several English the most important of which, Upper rises near Naseby, in Northamptonshi empties into the Severn, near Tewkshu a course of about 100 miles. Strath birthplace of Shakespeare, is situated bank of this stream, whence is derived pellation of the "Swan of Avon."

pellation of the "Swan of Avon."

AVONDALE, or AVENDALE, a per Scotland, county of Lanark. It was county that, in 1697, Claverhouse was dependent on the exists in Sir Walter Scott's "Old Mar It is commemorated by a Gothic mount feet high, recently erected at the spot took place.

The sommemorates by a crossic income feet high, recently erected at the spot took place.

AVONMORE, Viscount (Barry Year Irish judge, born in the county of Cardied in Public, Aug. 12, 1805. It ted at the free chool of Middle outly (which also and high idea the recent of Middle outly (which also and high idea the popular idea in the Irish public, alled to the bar in 174. sined a sea in the Irish public, and highest opposed to high popular idea in the Irish public, and highest opposed to the season of Irish and highest opposed to a season of the season of th

re which he is said to have deeply re-He was a man of eminently social and, in 1779, founded the convivial or-he Monks of the Screw, of which Curprior. His sympathies were with the cause, of which Grattan, Curran, and f his other friends, were champions them martyrs also. His legal knowl-as large and solid. His eloquence was he vehemence of a masculine intellect.
yment of wit was intense. His affec-

ryment of wit was intense. His affective warm and enduring. With all this, ips truly says, "he was the complete th of the bar—as inspired, as simple, imes as absent." He is said to have president a translation or corrected edition. ither a translation or corrected edition which he was too timid to publish.

YELLES, a parish of Louisiana, at the f Red river, which intersects it, and of Red river, which intersects it, and usits west border. Area, 800 sq. miles; nearly level, and subject to inundation. tern portion is fertile. The staples are otton, Indian corn, and potatoes. In productions were 3,538 bales of cotysts bushels of Indian corn, 4,481 hogs-sugar, and 248,720 gallons of molasses were 3 churches, 2 newspaper offices, mobils attending public schools. Capital.

vere 3 churches, 2 newspaper offices, pupils attending public schools. Capital, lle; pop. in 1850, 9,326, of which 4,165 a, and 5,161 slaves.

ANCHES, a town of France, in the det of the Manche, situated near the Séez, hin 3 miles of the sea, in lat. 48° 41′ 23″ ong. 1° 21′ 32″ E. It stands upon a hill toward the Channel islands, and aladd and mean, contains the remains of a old and mean, contains the remains of a iedral, consecrated in 1121, and partialyed in the revolution, in which is shown e on which, in 1172, Henry II. of Eng-elt to do penance for the murder of The cheapness of living and attractive

of the town have made it quite a resort lish families. In the 14th century it to the possession of the English, who it until 1450. Avranches has several astitutions, including a library of 10,000 , and some manufactures of lace and Small vessels can approach the town. 1851, 8,932.

Locn, a beautiful Scottish lake in hire, 8 miles N. W. of Inverary. It is in length, and 1 in width, encircled by and precipitous mountains, of savage r, the loftiest (Ben Cruachan) 8,670 eight. Its surface is dotted with small to the number of 24. On Inishail are ains of a small Cistercian nunnery, and -yard containing many curious old tomb On Innis Fraoch are some traces of at castle, formerly the residence of the the M'Naughtons. Inish Chounel was real centuries the residence of the family. The castle of Kilchurn, whose tower was built in 1440 by one of mpbells, the founder of the Bread-family, stands on a rocky point of land, near the head of the lake. It was garrisoned as late as 1745 by the king's troops, but is now deserted. Several small streams flow into Loch Awe, one of which connects it with Loch Avich, and another with Loch Etive, an arm of the sea. The lake is stocked with delicious fish, and is particularly celebrated for its trout and salmon, the former of unusual magnitude.

AWEIGH, in sea language, the posture of the anchor when it is drawn out of the ground in a perpendicular direction.

AWYAW, also AWAYE, or AGGAW-OJJAH, the capital of the kingdom of Yoruba in central

Africa, with a population of about 25,000. In consequence of frequent wars, this town, like most towns of the Yoruba tribes, is surrounded by clay walls, about 5 feet high. The streets are narrow and crooked, and the town with its thousands of low broad great the toked bourse people with the street of the str sands of low, broad, grass-thatched houses, peeping above the wall, and sweltering in the torrid sun, presents a singular and striking appearance. There are no public buildings except unseemly little temples. The home of the king differs from others only in size and in high differs from others only in size, and in high sharp gables called kobbi. The market forms a large area shaded with trees and surrounded with little open sheds. Here the women pass the whole day, laughing and chatting the time away, and trying to sell their various wares. Some of the sheds are occupied by barbers, leather-dressers, engravers, and other artisans. Every fifth day there is a large market, when Every fifth day there is a large market, when the town presents a still more merry and animated appearance. The houses are built of clay or mortar—only one story high, but containing a great number of dark little rooms. The gate of each house is furnished with amulets against evil spirits. This town has been visited of late years by American missionaries connected with the Yoruba mission.

AY a town of France department of Aricare.

AX, a town of France, department of Ariege on the Ariege. It is celebrated for its thermal springs, temperature from 75° to 170° F. Of these it has more than 30. Pop. 2,000.

AXAYACATL, Mexican emperor, died about 1477. He was the father of Montezuma, celebrated in the second of the

brated in the conquest by Cortes, and reigned orated in the conquest by Cortes, and reigned 14 years. Being a contemporary of Nezahual-coyotl, the prince of Tezcuco, and the greatest monarch that ever sat upon a Mexican throne, he was never able to obtain the wide power which his son acquired. He was already famous as a warrior when he became emperor of the Aztecs, and inaugurated his reign by a successful expedition against Tehnantenec, and in 1467. ful expedition against Tehuantepec, and in 1467, conquered anew the cities of Cotasta and Toch-A little later he repelled the tribes who strove to get possession of the Mexican capital, and maintained a vigorous warfare against his neighbors. It was in his reign that 50,000 Indians brought from the mountains of Cuyoacan an enormous rock, which, after being covered with bas reliefs, served as the lower altar in the great temple of Mexico. He was defeat-ed by the natives of Michoscan, whom he at-

tacked with inferior forces, and on his return to Mexico, celebrated funeral solemnities. He was preparing another expedition, when he died was preparing another expedition, when he died suddenly and prematurely. The palace of Ax-ayacatl, a gigantic pile of stone buildings, be-came 50 years later the barracks of the Span-iards. His treasures, too, the fruit of long and careful hoarding, were discovered by Cortez, within a concealed door, and the chronicler of the conquest exclaims that "it seemed as if all the righes in the world were in that room" the riches in the world were in that room. They consisted of gold and silver in bars and in the ore, many jewels of value, and numerous rich and beautiful articles of curious workman-

ship, as imitations of birds, insects, or flowers.

AXE. The axe is one of the earliest tools sugsted by the needs of man. whose first step is to provide himself with a shelter from wind and weather, needs some other aid than his own brute strength to supply materials for his hut, to shape his cance, or to fell and hue the harder trees that supply arms and utensils; and accordingly, among all antique relics, we find almost invariably some ecies of axe; the bone and flint tool of different Indian races, the metallic axe, mixed copper and tin, of South America and Mexico, suffi-ciently hard to cut porphyry and granite, the similar tool of the Romans, the Druidical copper axe, with the rough iron instrument of northern nations, all witness the primitive use of this implement. The increased science of more recent times constructs the axe of iron edged with steel; but anciently the use and combination of these metals was comparatively unknown. The possessed of iron in the ore, ignorant of its uses, combined other metals for weapons and tools, producing almost the hardness of steel by processes whose secret, since lost, has never been rediscovered by Europeans. With the progress of civilization, the increasing wants of the race, and the colonization of new and fer-tile countries, the use of axes has proportionably increased, with that of various other edge tools, under which generic name axes are classified as a variety. In the mahogany regions of Hon-duras and Yucatan, in South American forests, in the primeval woods of North America, in the jungles and thickets of eastern India, in a variety. the pine forests of Europe, and the teak groves of Burmah and Pegu, the laborer, of whatever race, is most usually supplied with tools from some quiet manufacturing village thousands of miles from his work. In the most recent American processes, the iron used in making axes is hammered bar-iron, the bars of different lengths, but definite sizes, differing for differ tools; it is heated to a red heat, cut of the quisite length, and the eye which is to receive the handle punched through it; it is then re-heated, and pressed between concave dies till it assumes the proper shape. The Spanish axe is made by the old process of hammering out the bar and turning it in a loop to make the eye, as bar and turning it in a loop to make the eye, this kind of axe has no head. The axe is a

heated and grooved upon the edge, recipi that groove the piece of steel which form sharp edge; borax is used as a flux, and a s heat the axe is welded and drawn on proper edge by trip-hammers. The next price is hammering off the tool by hand, restors shape lost in drawing out; it is then great form a finer edge, and the head; and down to its final symmetry. After the ground upon stones of finer grain than ! and is ready for the temperer. hung upon a revolving wheel in a furner a small coal fire, at a peculiar red heat, by the eye; is cooled in salt and water, fresh water, and removed to another is where it receives the last temper, the de heat being regulated by thermomete it is polished to a finish that shows ever and enables it to resist rust, and enter we ly; next it is stamped, the head blacked mixture of turpentine and asphaltum, to rust, and is weighed, labelled, and pac sale. Formerly the consumer depends the rude forges and limited skill of blac to supply axes, but since the increased there are many small manufactories in parts of Europe and America. tablishment in the world for mand axes and edge-tools is that of the Colli pany, situated on the Farmington river linsville, Connecticut. Here, by mean chinery invented for the company by I Root, the processes of axe-making are to extreme perfection. The establishment of the company of the case of the company of the company of the company of the Collins. After some passed into the hands of a company, were at the Collins of the company of the Collins of the company. now as the Collins company. T capital invested here is \$300,000. dred tons of iron, 200 tons of ca 2,000 tons of coal, are consumed and 350 to 400 men are employed; 13 l wheels supply the motive power of chinery, and from 1,500 to 2,000 tool daily. The two largest American turers after the Collins co., are Hu

Douglas, Mass., and Simmons of Co
AXEL. See Absalon.

AXINTE mineral
at com-

at consists chiefly of silica, alumina, oxide of iron.

AXIM, a town of Africa, coast of Glonging to Holland, which power mains a garrison of 500 well armed men, year 1642 it was occupied by the Powhen it was taken from them by I who were confirmed in their possessive of Westphalia.

AXIOM, an ancient philosophical temployed by mathematicians to designifies which are immediately and estimated demonstrations. Such proposed

ts;" "Two things, each of which a third thing, are equal to each a s more extended sense, the axiom mean any self-evident and indis-ith, such as the following: "What-" "The same thing cannot at the exist and not exist." All sciences, hysical or moral, have their axioms e actual or conventional truths, and mulas or enunciations of their funprinciples. They are the bases upon different parts of a science rest, the held in common in discussions, and all the consequences are to be derivcording to an axiom of logic, whos a principle, admits its consequences. a geometry a line around which the figure are symmetrically arranged: ine from pole to pole, in the earth, of the earth; and the shortest and meters of an ellipse are the axes of

N PERITROCHIO, an old term for a a piece of timber or a bar of iron

ports the body of a car, carriage, or is itself supported on two wheels in r naves of which its ends are insertat change was introduced some 80 in the shape of axles for carriages, by 1 invention of air-tight closed boxes, a slight modifications has been adoptthe world. The wheels of carriage revented from falling out by means on the axle, which enters the hub de, and not by a nut and pin on the usual in common vehicles. The f railroads has made another change Axles for railroads, instead of re-the hubs of the wheels, are strongly hem, and journals are turned on the atside the wheels. These journals gh and revolve in boxes attached to of the cars. This arrangement has of the cars. This arrangement has I to resist vibrations and jerks resulthigh velocity, much better than the it was, moreover, necessary to insure invariably equal to that of the rails, so rims of the wheels. It has been unted to divide axles in the centre, and and in the United States. e two half axles that meet are main-

hanism, and brings each axle perpen-the curve of the road. The English proposes to divide carriage axles in um short curves without bringing one t wheels under the carriage, and thus to use of large wheels for both axles. evement of Morse and Mansfield, the inventors, is for railroad cars. o prevent the sliding of one wheel in d to keep each wheel parallel to the invention has been tried on several I New England, the several engineers

oxes fixed in slides on a frame, and of the carriage acts as a lever on a of which have reported that it makes a great

axing in the wear and tear.

AXMINSTER, a town in the courty of Devon, England, 147 miles from London, chiefly known on account of the very beautiful carpets which have been made there of late years; and which are woven all in one piece. The town is mentioned in Domesday book, and is believed to have existed from very early times, as King Athelstan made a grant to 7 priests there to pray for the souls of certain earls and others slain in battle with the Danes. An action was fought near Axminster in the civil wars in 1644.

AXOLOTL, the Mexican name of an amphibious reptile, described by naturalists as siredon. This tadpole-formed reptile has the vertebra biconcave, and the body elongated and formed for swimming. The feet are 4, the anterior befor swimming. The feet are 4, the anterior being four-toed, the posterior, five-toed; the sides of the body are marked by several small furrows, and an imperfect lateral line is continued from the gills to the tail. The head is flattened, with a rounded or truncated snout, near the end of which are the nostrils; the eyes are small, and about midway between the angle of the and about midway between the angle of the mouth and the nose; the tail is elongated and compressed, and tapers to a point; a thin membrane commences near the back of the head, rising gradually to the middle of the tail, and diminishing again toward the tip; underneath, it extends from behind the vent to the tip, reaching its greatest height at its anterior third. It belongs to the perennibranchiate order, or those whose gills remain through life, coexisting with rudimentary lungs, hence its respiration is always aquatic. The gill-openings are large, and the gill-covers are continuous beneath the throat, so as completely to separate the large, and the gill-covers are continuous beneath the throat, so as completely to separate the head from the breast. The gills consist of 4 semicircular cartilaginous arches serrated internally, like those of fishes, and externally provided with fine branchial fringes, occupying thickly the lower edge of the flaps, and a few on the tip of the upper edge. The fringes are flattened, tapering, and disposed in a double row. A generic character is the presence of 4 external flaps, provided with respiratory fringes. The mouth is provided with 2 rows of teeth in the upper and lower jaw. The larval character of this genus is shown by the opercular flap not being attached to the integuments, lar flap not being attached to the integuments, and being free to the extremity of the chin—in this differing from many other perennibranchi-ates. There are 8 species described, siredon Mericanus, Shaw; S. maculatus, Owen; and S. lichenoides, Baird. It is probable that other species exist, as there are many localities in Mexico, New Mexico, and Texas, where "fish with legs" are common. The axolotl is about with legs" are common. The axolotl is about 10 inches long, of a dark brown color, with blackish spots. Great numbers are taken in the month of June from a lake about 8 miles from the city of Mexico, at an elevation of more than 8,000 feet above the level of the sea, and from water whose temperature is never below 60° F. At this time they are so abundant that they

form the principal food of the peasantry. form the principal food of the peasantry. They may be see in the markets by thousands, and almost every native will have a string of 60 or 70. The fact of their being eaten by the Mexicans was long ago mentioned by Humboldt.

AXTLL, DAMEL, an English colonel and commor wealth's man who played an important part under the protectorate of Cromwell. He was originally a grocer. He was a stanch re-

was originally a grocer. He was a stanch re-publican, and was one of the regicides. He crossed over in Cromwell's train into Ireland, received the government of Kilkenny, and put down the royalists. After the restoration (1660) Axtel was one of the 52 excepted from the general amnesty and condemned to death. He was hanged at Tyburn, Oct. 19, 1660. His head was set up on Westminster hall, and his limbs

exposed in other places.

AXUM, or Axsum, or Axoom, a city, and once the capital, of the province of Tigre, in Abyssinia. Parkyn visited this city in 1848. There stands in it a church considered the most sacred building in all Abyssinia, "around which lie scattered unfinished or broken columns, pedestals, and other remnants of the civilization of former ages." This church is about 200 years and There were principally \$5 chelists at Ayang old. There were originally 55 obelisks at Axum. One of the most remarkable of these, a single shaft of granite, 60 feet high, is still standing in good preservation. It is destitute of hieroglyphics, and instead of ending in a pyramid like the Egyptian obelisks, terminates in a kind of paters, indicating that it is of Greek rather than of Egyptian origin. Tradition says it was erected in the time of the emperor Aizanas (A. D. 300). Axum has become important in archeology by the discovery of a stone (Axumitic marble) having on one side inscriptions in Greek, and on the other, according to the trav-eller Salt, inscriptions in Ethiopic, so effaced inscriptions in eller Salt, inscriptions in Europe, so that that he could copy but a small part of them. They appear to give a list of kings whom some Abyssinian monarch had conquered. The stone, if it be genuine, hints at the existence of an exthe to genume, thick at the existence of an ex-tensive and powerful empire in Abyssinia, where arts and arms were well known and oul-tivated. In ecclesiastical history there is pre-served a letter of Constantius, addressed to served a letter of Constantius, addressed to Aizanas and Sazanas jointly, calling them the "Axumite princes." This stone also gives the name of the Abyssinian monarch as Aissness name of the Abyssiman mouseum and mentions Sazanas. Axum was probably the first place in Abyssimia into which Christianity was introduced. It was formerly the centre of the ivory trade. It has now about 600 houses.

AYACUCHO, a department in the rep of Peru; pop. 131,921. Near its also named Ayacucho, the battle v which finally secured the independence ish South America. After the battle (Aug. 6, 1824), the Spanish viceroy. Serna, attempted by manueuvring to communications of the j Gen. Sucre. Unsuccessful drew his opponent to the

where the Spaniards took up a defining tion on a height. They numbered 18 km of infantry, with artillery and caver, 9,810 men. On Dec. 8, 1884, the arguards of both armies became e the following day Sucre advanced men to the attack. The 2d Colombi under Gen. Cordova, attacked the S and at once threw it into disorder. vian division on the left, under Gea. I make no progress until the reserve, unk Lara, came up. The enemy's retrest a Lara, came up. The enemy's retrest a coming general, the cavalry was lasted pursuit, dispersing the Spanish horse at pleting the defeat of the infantry. The iards lost 6 generals killed and 2.001 wounded, and prisoners, among the lattice of the infantry. The South American loss will be a second and a second a second and a second and a second eral and 308 officers and men killed, # ed, among them 6 generals. The n Canterac, who now commanded the army, concluded a capitulation, by wi only he and all his troops surrendered; of war, but also all the Spanish troops all military posts, artillery, and magas the whole of Peru, as far as they i it (Cuzco, Arequipa, Puno, Quilca, a delivered up to the insurgents. The to delivered up as prisoners of war amount to nearly 12,000. Thus the Spanish was definitively destroyed, and on 1825, the congress of Chuquisaca pro-independence of the republic of Be name Ayacuchos has in Spain be Espartero and his military parties.
of the military camarilla grouped a
had served with him in the war a South American insurrection, wh military comradeship, they were gether by their common habits of garactually pledged themselves to suppled them have been returned to 8 pledge they have honestly kept, much mutual interests. The nickname of a was conferred on them in order to the Espartero and his party had materials. uted to the unfortunate issue of This, however, is false, though the been so assiduously spread that ever generally credited in Spain. Experi generally credited in Spain. was not present at the battle of was not even in America wil was not even in America who ing on his passage to Spain La Serna had sent him with a dinand VII. He had embarl 5, 1824, in the British brig Ondiz Sept. 28, and at Ma again sailed for America from very same Dec. 9, 1834, on Ayacucho was fought. (S. Florez, Espartero, Madrid, Principe, Espartero, Madrid AYALA, Parasa Lorez,

his age; held aigh offices in the kingdom his age; held aigh offices in the kingdom monarchs, was one of the suppressive the unfortunate Henry of Trastamara, at the battle of Naxera, in 1367, where he the banner of that prince, was made prissive the banner of that prince, and carried England. He there wrote in prison his no finada de Palacio, or "Rhyme of the transaction of the same of the last of those history of the prisoner in the battle of Aljubarotta, and to endure another tedious captivity in Portal He was one of the last of those history of the older chroniclers, and, as might be expected in a man learned in philosophy as well as historical credulity which give a charm the narratives of the older chroniclers. His replication of the 4 wild reigns, in which he may be the transaction of the 4 wild reigns, in which he may be the transaction of the transact

AYAMONTE, a city of Spain, in the province Huelva, situated on the Guadiana, about 2 miles from its mouth. The town is strongly triffed, but difficult of access, owing to the part its mouth. The inhabitants are chiefly engaged in the fisheries, particularly for sardines tunny, and cod. Pop. 4,675.

ines tunny and cod. Pop. 4,675.

AYAN, a town on the eastern coast of Siberia in lat. 56° N., and long. 138° E., about equidistant from the larger town of Okhotsk and the mouth of the Amoor river. It contains some forty houses, and between 300 and 400 inhabitants, Russians, Cossacks, Germans, and Toungouse Indians, and is the chief station of the Russian for company in that part of the country. It has a Greek church and a small ship-yard. The port is rarely visited, save by whalers and the company's ship, which carries a load of fors to Europe annually. The houses are built of hage pine logs, smoothly planed, and fitted tightly together, the interstices being carefully talked and puttied. They usually consist of but a single story, and some of them cover a great deal of ground. Each room has an immense fire-place and double windows. The latter are placed about six inches apart, having between them a brick, on which is kept a pile of table salt, to absorb the moisture entering from without. Dogs are used in hundreds, for travelling in winter, and carefully fed and sheltered in summer. They are watched by keepers through the day, and locked up at night in a large log house. When the snows set in, the houses and reindeer are turned loose to shift for houses we have a large droves; they wander about the country, obtaining sustenance by digging down through the snow, and, by their united

strength, secure against the attacks of wild beasts. It is only necessary to feed them in the spring, when the snow thawing and then freezing again, forms a covering to the earth of solid ice. No sheds are erected to shield them from the cold; and though the mercury sinks in the centigrade thermometer to 25° below zero, they are rarely frozen, as the air is perfectly still and free from moisture. The government post makes the overland trip from St. Petersburg, in about 60 days. Teas, wines, sugar, and tobacco, are brought by the land route, sewed up in raw hides, and the finer furs (some of which bring from 300 to 800 dollars apiece) are sent home in the same manner. (See Lieut Habersham's "My Last Cruise," 1857.)

AYASOOLOOK, written, also, AYASALOUK, and AJABALUK, a village of Asia Minor, on the site of the ancient Asiatic Greek city of Ephesus, with a mosana, castle, and aqueduct, construct-

AYASOOLOOK, written, also, AYASALOUK, and AYASALOUK, a village of Asia Minor, on the site of the ancient Asiatic Greek city of Ephesus, with a mosque, castle, and aqueduct, constructed out of the ruins of ancient Ephesus. Here have been found the remains of the great temple of Artemis, called in the English translation of the Scriptures, Diana of the Ephesians. Lat. 87° 55′ N., long. 27° 20′ E.

AYCINENA, MARIANO, styled, also, marquis of Argingers descended from an old Spanish

AYCINENA, Mariano, styled, also, marquis of Aycinena, descended from an old Spanish family of noble blood, was elected governor of Guatemala, Central America, March 1, 1827, by the monarchical or servile party of that state. His administration was signalized by the organization of a military tribunal for judging political offences in a summary manner, the proceedings of which were, to the last degree, oppressive and bloody. They so far excited the indignation and alarm of the neighboring states, as to lead them to unite, in a league, to put down the "military inquisition." This was effected under the leadership of Gen. Francisco Morazan, who captured Guatemala, April 12, 1829, and deposed Aycinena and his adherents, who, on Aug. 22 following, were banished from the country by act of the federal congress. They were obliged to return the money which they had secured on account of their salaries, and a third part of their property was confiscated for the benefit of the state; and the relief of the victims of the "military inquisition." A number never returned; but with the downfall of Morazan, Aycinena came back, and took an important, if not an open part, in the events which resulted in constituting Carrera president for life (Presidente Vitalico) of Guatemala.

AYER, PETER, one of the founders of the society of Shakers, at the Shaker village, Canterbury, N. H., born 1760, died there, Sept. 14, 1857, aged 97. He was a powerful, athletic man, and served in the revolution previous to his becoming a member of the Shaker fraternity, with which he was connected upward of 70 years.

which he was connected upward of 70 years.

AYESHA, or AISHA, the favorite wife of
Mohammed, born at Medina in 611, died 678.
She was the daughter of Abubekr, and was
but 9 years of age when she was betrothed to
the prophet. She is reputed by Arabic writers

eack was never cleared up. If probably was cognizant of his id. If

l burgh and county town in Scotnouth of the river of the same runs into the frith of Clyde, 77 dinburgh. Population in 1851, is a harbor with two piers, each at long; vessels of 200 tons can The town was a place of note conquest, and was chartered by

ion, king of Scotland, in 1202. from the town stands the house oet Burns was born.

KOB, a German poet, who flourish-erg, in the time of Hans Sachs, perg, in the time of Hans Sacns, d of the 16th century, and died in he author of about 70 comedies, esques, and carnival plays, which d in 1618, in Nuremberg, under Theatricum. Tieck inserted 5

n the first volume of his Deutsches had a peculiar style of versifica-he whole, was greatly inferior to

HE, an English penman and arith-

life.

at the end of the 17th century, 0. His "Arithmetic Made Easy" ted to the Lord Mayor of London, ur as Cocker in the last century; appeared in 1714. h, a county in the S. W. of Scoton in 1851, 189,858. It is hilly n and eastern sides, the principal nearly 2,000 feet. It is intersectnearly 2,000 feet. mall rivers. Off the coast lies the the top of a submarine mountain olumns similar to those of Staffa. bounds in coal, particularly that nde coal, which is found in the ron, lead, antimony—and various ng stone are also found; there is valued for mill stones, and a ed in building ovens on account a resisting fire. The progress of nowhere been more marked hire. The county is remarkable ps and for the general prosperity The manufactures are consider-

woollens, cottons, leather, and o which the example of the great ataley and Glasgow have given imulus. The relics of antiquity, Roman, are numerous, while the es, religious edifices, and other st notable of these in point of inuins of Turnberry castle, the anby the English, and recovered
At Alloway, near Ayr, is the ю. The religious tenets of the a subjected them to persecu-ne of Charles and James II., and I the martyrs in the cause of

the covenant are to be found scattered over the

Country.

AYSCUE, Sie George, born about 1616, died about 1676, of an ancient Lincolnshire family. He entered the navy early, and was knighted by Charles I. In the civil war, siding with the realisant had been applied to the country of the countr with the parliament, he had command, as admiral, in the Irish seas. In 1651, he reduced Barbadoes and Virginia, which had held out for the king. In 1652, he gallantly seconded Blake in his great victory over Van Tromp, the Dutch admiral. After the restoration he the Dutch admiral. After the restoration ne was promoted, and did further good service in the war with the Dutch. In June, 1666, in the memorable naval battle of the four days, he commanded a squadron, but his ship (the Royal Prince, the largest ship then affoat running on the Galoper sands, his men forced him to surrender, and the Dutch captured his vessel. He returned to England, after a captivity of some years, but retired wholly into private

AYTON, Sie Robert, a Scottish poet, and private secretary to the queens of James I. and Charles I., was born at Kinaldie, in Fifeshire, in 1570, died in the palace of Whitehall, March, 1638, buried in Westminster abbey, where he has a monument. When James VI. of Scotland has a monument. When James VI. of Scotland became king of England, a very eulogistic Latin poem on the occasion was Ayton's courtly offering, and his adulation was rewarded by knighthood, and several lucrative offices, which kept him personally intimate with the king. His Latin poems, chiefly panegyrical, were published in his lifetime, and much esteemed. His English poems, principally preserved by tradition, were soarcely known until the Ballantyne club at Edinburgh printed a collection of them in their "Miscellany." But, some of them in their "Miscellany." But, some years ago, a manuscript containing Ayton's poems was picked up at a sale, and the whole, edited by C. A. Pryer, were published in 1844. Burns greatly admired such of Ayton's poems as he had seen—among them the original of "Auld Lang Syne." Ayton was intimate with Ben Jonson and the leading lit-

erary men of his time.

AYTOUN, WILLIAM EDMONDSTOUNE, a Scotch professor, essayist, and poet, born in the county of Fife, in 1818. He was of noble birth, and was educated in the schools of Edinburgh, where he gained distinction for his superior compositions both in English and Latin, and both in prose and verse. A prize poem named "Judith," which he recited before the moral philosophy class in 1831, received the applause of Professor Wilson, encouraged by whom he published his first volume, entitled "Poland, and other Poema," which attracted but little attention. Mr. Aytoun devoted himself to legal pursuits, was called to the Scotch bar in 1840, and be-came well known as one of the wits at court and as an advocate in criminal cases. In 1845 and as an advocate in criminal cases. In 1845 he was elected to the professorship of rhetoric and belles-lettres in the university of the capital, and the lectures which he delivers there to

the students are celebrated for their pithy treatment of topics and their brilliant and finished style. He abandoned the liberal political views toward which he tended in his youth, and since the death of Professor Wilson has been the most prominent among the contributors to "Blackwood's Magazine." In this periodical first appeared those minstrel-like and enthusiastic national ballads since issued in the volume of the "Lays of the Scotch Cavaliers." They have been widely read, and by their lyric fervor and power show both the author's talent and his sympathy with the heroism of the royalists in the time of the Jacobite troubles. Professor Aytoun lectured with great success in London, in 1853, upon poetry and dramatic literature, and subsequently published "Firmilian," a mock spasmodic tragedy, designed to ridicule the raptures of some of the young poets of the day, and to satirize the pompous and vapid judgments of certain critics. He also took part in the "Book of Ballada," edited under the pseudonyme of "Bon Gualtier." His last poem was "Bothwell," published in 1856. He is one of the most well," published in 1856. He is one of the most ward for his services to the conservative party, he was, in 1852, appointed by Lord Derby to the offices of sheriff and vice admiral of Orkney.

AYUNTAMIENTO, the name of village and town councils in Spain. During the wars between the Moors and Christian Spaniards it was the policy of the sovereigns to induce inhabitants and cultivators to settle in the depopulated country as fast as it was recovered. As an incentive, they granted to the villages and towns municipal privileges of a character derived from Roman antiquity, and totally antagonistic to the spirit of the feudal law, inasmuch as they made the citizens perfectly free, and were calculated to foster a vigorous and deep-rooted love of liberty. The town councils were to be composed of the judge, the mayor, the regidores or clerks, the juradoa, and the personeros or deputies; all these were elective offices, except the judge or corregidor, who was appointed by the king. The only qualification for a citizen was Spanish birth, residence, and to be the head of a family. These privileges were consonant with the most ancient rights of the Spaniards and their Gothic conquerors, but now they were confirmed by fueros or charters. The only liability under which the districts thus organized were placed, was that of paying a tax to the king, and of serving in arms in defence of the country, under their own alcalde. Their elections were by ballot; persons soliciting a vote or using undue influence were disfranchised. The king himself might not interfere with the proceedings of the ayuntamiento, which had supreme control of all local expenditure and taxation. All the citizens in these districts had equal rights. Noblemen had to lay aside their rank and exclusive privileges, if they desired to reside in the district. There were no special privileges; all men and all religions were equal before the law. These admirable regulations continued in full force for

many years. But the ellossened the bonds of sod ments were made by various frames of the towns. For is facros of the towns. the 15th century, established a ptamiento in Toledo, whose more pointed by the crown the syuntamiento had the righ uties, remonstrated against them ments; but as the powers of the mession increased, the desire to examine control over the cities also increased period of the French invasion, while cipal organizations of the villages tant towns had preserved their intercharters of most of the great towns of the kineders had because of the kingdom had been at or of the kingdom nau wood the people violated, and the rights of the people violated, and the research and the After the French evacuation, and the of a national government, the count 1812, recognizing and restoring all f fueros, was adopted by the people. I ance to the plans of Napoleon hell but their work, not that of the count higher orders. Ferdinand VII, as tion in 1814, refused to ratify the of 1812. This breach of faith left war of independence. The attachmenthern part of Spain, and excel Basque provinces, to the cause of B After the French evacuation, a Basque provinces, to the cause of I was owing to his respect for their at ters. After various changes, the of 1812 was renewed in 1857. consequence of the check which this local government gave to the p court, Queen Christina, by the adv Philippe, introduced a measure into strain the political action of the sp This, although it at the time disturbances, was substantially

AZAIS, PIERRE HYACESTER, a losopher, born at Sorrèze, in the son March 1, 1766, died at Paris, is The father of Azais was professor the college of Sorrèze, established dictine order of monks. Azais entelege at the age of 6, and remain 16. His favorite studies were nat physical science, and music, to of Greek and Latin, for which strong attraction. At 16, he rem louse, where he entered the school gious order of Oraterians. He re a year, whom he became a teach at Tarbes, in the Pyrémies. The Oleron also made him his prival and wished him to take orders as tie; but not willing to become undecided what profession to adequalist at the abbey of Villenes; time, and then private tutor to nobleman in the neighborhood revolution of 1780 brake cert, his being democratic, he left his aritrons, after a 7 years' residence in

ad home.

ed home. His father was then agnères, where his wife's brother, ad, was commanding officer of the the Hautes Pyrénées. After of Robespierre, young Azaïs was scretary of the administration of of Bagnères; but his thoughtful d rendered him unfit for business, med the office within a year. Possess are high and he was somewhat s ran high, and he was somewhat his adversaries. At length he es-school at Gaillac, where the municied him the former college of the is political friends were then in the and he wrote a pamphlet called ator of the year V.," for which he nned to banishment, some years their adversaries came into power. Coulouse, and from there to Tarbes, was concealed in the house of a was soon denounced and obliged ther refuge. ther refuge. He was privately connight to the hospital of the same ch the patients were under the care ns of charity, and there he was es-nietly as secretary and bookkeeper pital. There he wrote his "Dis-he Soul with the Creator," and his Inspirations, or the Elevation of the Spirit of God." In these works he th his ideas of eternal justice, and and necessary balance of good and universe and in the destrines of universe and in the destinies of r remaining 18 months concealed stal, he retired to Saint Sauveur, a llage at the foot of the Pyrénées, rote his book on the "Misfortunes ppiness of Life." In this locality of 6 years, engaged in writing his philosophical "System of Compensich has given him a name in the then went to Paris and become then went to Paris, and became with Lacepède, Cuvier, Laplace, other men of note, but his philoso-d little attention. Like all great men ideas, he was not well understood; beeply was not essential to success life. His work, however, went editions, but the profits were but more than \$60 or \$65.—He married of an officer, and was appointed f geography in the military school T. When the school was removed ne, he gave up his professorship and ris with his wife and family. Their ms were small, and he was very mg time. At length the government im inspector of the library of Avthere he published his great work) on the "System of the Universe," meUniversel. The following year he metrerset. The following year he city of Nancy, in the same capacimenced a work on the destiny of the downfall of Napoleon he lost and retired again to Paris, where he time in poverty. Several of his

friends at length obtained for him a pension of \$1,100 per annum, afterward reduced to \$400. He lectured publicly at the Athenée Royale in Paris, and being a lucid orator, attracted large audiences. In 1826, he published his "Universal Explication." During the years 1827 and 1828, he held conferences in his own private garden in the suburbs of Paris, which were attended by the élite of both sexes, and for many years was popular in every class of for many years was popular in every class of French society. His nature was benevolent; his conversation pleasant and instructive; his intellect serene; his manners simple and pohis conversation pleasant and instructive; his intellect serene; his manners simple and politie. In 1829, he published his Principes de morale et de politique; in 1833, his Cours d'explication universelle; in 1834, his Idée precise de la verité première; in 1835, De la vraie médécine, and De la vraie morale; in 1836, Physiologie du bien et du mal, for which the French academy awarded a prize of \$1,000; in 1839, De la phrenologie, du magnetisme et de la folie; in 1840, La constitution de l'univers et l'explication générale des mouvements politiques; for which the academy awarded another prize of \$400.—The name of Azais and the philosophy of compensation are now as inseparable as the name of Newton and the law of gravitation.

now as inseparable as the name of Newton and the law of gravitation.

AZALEA (Gr. a[alcos, arid), a genus of plants belonging to the natural order of ericacea, and to the sub-order of rhodorea, named in allusion to the dry places in which many of the species grow, and consisting of upright shrubs with large, handsome, and fragrant flowers, often cultivated in gardens. The genus comprises more than 100 species, most of them natives of China or North America, having profuse umbelled clusters of white, orange, purple, or China or North America, having profuse umbelled clusters of white, orange, purple, or variegated flowers, some of which have long been the pride of the gardens of Europe. The general characteristics of the genus are a 5-parted calyx, a 5-lobed funnel-form, slightly irregular corolla, 5 stamens, a 5-celled pod, and alternate, oblong, entire, and ciliated leaves, furnished with a glandular point. The species may be classified into those which have glutten and flowers and those whose flowers are but. nous flowers, and those whose flowers are but alightly or not at all glutinous; each of which classes may be subdivided into those which have short stamens, and those which have stamens much longer than the corolla. Of those which have a glutinous corolla and short stamens, are the viscosa and the glauca, very nearly resembling each other, found native in North America from Maine to Georgia, growing from 4 to 10 feet high, and having many varieties of flowers, either white or tinged with varieties of nowers, either white or tinged with rose color. Of those which have a glutinous corolla, with long stamens, are the nitida, hispida, and pontion, the 2 former being American species and found in mountainous regions in the middle states, the latter a native of Turkey and the northern borders of the Black sea, and distinguished by its brilliant yellow corolla. Of those whose flowers are smooth or but slightly clutions, and have long stamens, see the next. glutinous, and have long stamens, are the per-

clymena, or upright honeysuckle, found on hill-sides in all the woods of North America; the consesses, with a white flower which has a red and the arborness, a rare and beautiful shrub, with elegant foliage and very fragrant rose-colored blossoms, found about the Blue Ridge mountains of Pennsylvania. Of those whose flowers are not glutinous, and which have short tenness are the common and which have short stamens, are the sinensis, nearly resembling the pentics; the indica, a Chinese species, with pentics; the indica, a Chinese species, with brilliant variegated flowers, cultivated in Europe and America as a greenhouse plant; and the ledifolia, also a native of China, with ever-green leaves, and larger flowers than those of the preceding. The leaves of all the American the preceding. The leaves of all the American species are deciduous. In cultivation the aza-leas love the shade and a soil of sandy pest or

AZAMOR, a fortified seaport town of Mo-Atlantic, at the mouth of Morbeya river, which forms its harbor lat. 88° 17' 87" N., long. 8° 15' W. Pop. about 1,000.

AZANI, a decayed city of Asia Minor, on

e Rhyndacus, where it is crossed by 2 ancient bridges. Its remains are extensive. Among them are a fine Ionic temple of Jupiter, and a theatre 233 feet in diameter. A small modern Among

suem are a nne lonic temple of Jupiter, and a theatre 282 feet in diameter. A small modern village is built among its ruins.

AZANZA, Jost Mieure De, a Spanish politician, born at Aviz, in 1746, died at Bordeaux, June 20, 1826. After studying in several universities, visiting Havana, and travelling through the various provinces of Spain, he entered the army, and in 1761 distinguished himself at the siege of Gibraltar. He was subsequently among the state of Gibraltar. stage of Gibraltar. He was subsequently am-bassador from Madrid to St. Petersburg and Berlin, and during the military occupation of Madrid by Murst, he acted with great vigor and prudence as member of the supreme council of government. Though he remained in office under King Joseph, he retained an enthu-At the return of Ferdisiastic love of liberty.

siastic love of liberty. At the return of Ferdinand VII., he lost his fortune and political position, and west into exile in France.

AZARA, José Nicolo DE, a Spanish diplomatist, born at Barbunales, in Aragon, in 1731, died at Paris, Jan. 26, 1804. While pursuing his studies at the universities of Huesca and his studies at the universities of the capacitally for the fine arts, and this natural taste was further developed after he was appointed as the chargé d'affaires of the Spanish government at Rome. In that capital he became intimately associated with the most celebrated artists of the time and excellent the time, and especially with the painter Mengs, who had entered into the service of the king of Spain. He showed rare diplematic ability of Spain. He showed rare diplomatic ability in the negotiations which he conducted with Clement XIII., and continued, under the pontificate of Clement XIV., to exercise great influence upon the relations of his government with the holy see. He took part in the measures for the abolition of the Jesuits, and for the election of Pope Pins VI. In 1705 he was

sent by his court to meet the Italy, and sak favor for Rome. to Napoleon the bust of Alexa still seen in the massum of the which passed for the only author the hero of antiquity. He was a pressed with the good faith of the a and when, 2 years later, he was see he acted upon the sion to Paris, he acted wentire confidence in the h The cabinet at Madrid undecided, and, during its fact was recalled, exiled, restored with it ers, and again recalled. His half infirm, could not resist so frequent in he died before leaving Paris. He M ble collection of books, painting, a ties. He also published the works Mengs, and wrote his life. He of "Memorials of Ancient and He w tects," written in Italian, and of translation of the "Life of Closes," dleton.—Frux pr., brother of the dleton.—Frier Dr., brother of the learned Spanish traveller, born at May 18, 1746, died in Aragon is first he pursued a military caree part in the unfortunate expedition giers in 1775. In 1781 he was out mission appointed to settle the brother tween the Spanish and Portugues and during his about the settle of the settle travels and during his about the settle of t in America, and during his abo world undertook the laborious to up a chart of the vast cour he had examined. Thirteen and dangerous labor were devi terprise, and the results of h terprise, and the results of his were published under the title between 1781 and 1801. He (several essays upon the quadrupt history of Paraguay and other by OVINCES.
AZARIAH. There are 13

name mentioned in Scripture : 1 name mentioned in Scripture; (1 Chron. vi. 9), perhaps the sam (2 Chron. xix. 11). II. Son of priest (1 Chron. vi. 10). III. 'who opposed Uzziah (2 Chron. A high-priest in the reign of Her xxxi. 10). V. The father of Shigh-priest before the captivit 14). VI. Son of the high-priest vi. 2). VII. The captain of Sc (1 Ki. iv. 5). VIII. Another m high-priest before the capiv. 2). VII. Son of the highiv. 2). VII. The captain of
(1 Ki. iv. 5). VIII. Anothe
a king of Judah, who added
the military and agricultur
kingdom, but, for assuming
the priests, was smitten with
according to Jewish law,
IX. The son of Oded, a pr
Ass, king of Judah, to mak
God, after his success again
Ethiopia (2 Chron. xv. 1).
xxiii. 1.) XI. (2 Chron. xon of Hoshalah, who access son of Hoshnish, who as ceiving the people, is not to go to Egypt, a

(Jer. xli. 2). XIII. The Chal-bednego (Dan. i. 7, and iii. 19). TAPABELLA, marquis d man, author, and artist, born at 798. His father, who died Nov. high position in the government, ervative paper L'Amico d'Italia, ted ambassador to the holy see in Massimo, although then only 16, ther to Rome. By desire of his vard entered the army, but soon ne the literary and artistic purre more congenial to his nature, nis enthusiasm had been kindled ures and intellectual associations city. His talent for authorship onfirmed by his relation to Manor of I promessi sposi, whose arried. From his position and eglio was singularly qualified to and link its memories with the of the new. Accordingly, his tore Fieramosco and Nicolo de' g the most artistic and elaborate istorical romance in his native ore Fieramosco is founded on llenge of Barletta—an incident

historical readers, that of a tween 13 Italian and an equal nch knights. Beside the full letails of the event, its anconsequences, and the well attractive character of the hero, personages are introduced with ich as Cæsar Borgia and Vitthe scenes are eminently true and the whole composition is sentiment of patriotic integrity. ich appeared in 1833, was folby Nicolo de' Lapi, also inspired recognize and awaken national siege of 1529-'30, when Florence out against the united forces of VII. and the emperor Charles V storical fact illustrated; but inci-re admirably painted the archi-tic life, military and religious entiments, the public traits and ctions of the Florentines of that o's prevalent taste, notwithstandas a novelist, is for the labors of a has reverted, after a brief pothe palette and the pencil; and productions are some of the best oil to which modern Italian art Crowned thus at home and ie fame of a painter and author, hin the last few years, occupied ninent position as a statesman. nt love of country, and a rare national peculiarities, he wrote, the revolutions which followed it love of Napoleon's rule in Italy, in deration, good sense, and symch his pamphlet, Degli ultimi na, is an example. When the

recent progressive movement in Piedmont berecent progressive movement in Piedmont began, he took an active part, as minister of foreign affairs, in promoting reform, initiating a liberal policy, establishing new charities and educational systems, developing the internal resources, and reorganizing the foreign relations; his personal influence with the king was great, and by pen and voice, in the cabinet and in society, as a minister and a man, D'Azeglio exerted a powerful influence. Ill health, love of art, the desire for the retirement and pursuits art, the desire for the retirement and pursuits accordant with his tastes and habits, and some differences of opinion with his colleagues, have withdrawn him from public life, although his advice is always sought on all occasions of special interest. In his address to the Sardinian parliament, Feb. 12, 1852, he gave expression to the highest sentiments and principles which can actuate a constitutional government. He commenced in the Antologia Italiana, in 1845, a new romance, founded on the Lombard league, which ceased with that journal; soon after, he became absorbed in official duties, and, since his retirement, his days of health have been chiefly devoted to travel, study, society, and painting.
A complete edition of his political writings, in
1 vol., appeared at Turin in 1851.
AZERBALJAN, a northern province of Per-

sia, bounded N. and N. E. by the Russian dominions, E. by the province of Ghilan, S. by Persian Koordistan and Irak, W. by Turkish Koordistan. It formed a part of the ancient Atropatene, from which its modern name is desired. rived. The country is mountainous, with fertile valleys and small plains. Mt. Savalany, apparently once a volcano, is upward of 12,000 feet high. The chief rivers are the Kara Soo and the Aras. The salt lake of Ooroomeeyah is in this province. The climate of Azerbaijan is generally healthy; the summers are very hot and the winters very cold. In the plains the pomegranate and clive thrive in the open air. The mineral resources of the province are not developed; but there are mines of iron, lead, and copper. The inhabitants are chiefly Mohammedans, but there are some settlements of Nestorian Christians, to whom much attention has of late years been paid in the United States and England.

The ancient city of Tabrecz is the capital.
AZEVEDO, COUTINHO JOZÉ JOAQUIM AZEVEDO, COUTINHO JOZÉ JOAQUIM DA CUNHA, a Portuguese bishop, and the last in-quisitor-general of Portugal and Brazil, born at Campos Dos Goitacares, in Brazil, Sept. 8, 1742, died Sept. 12, 1821. He took an active part in questions of political economy affecting the interests of his country, and published in 1792 a work entitled Ensaio economico sobre o commercio de Portugal e suas colonias. In 1794 he was made bishop of Pernambuco. He was he was made bishop of Pernambuco. He was afraid that the sudden emancipation of the slaves might lead to a revolution in Brazilian agriculture, and with the view of averting this calamity he published in London, in 1798, a pamphlet against the proposition to abolish the slave trade, made in the British house of commons. Shortly before his death he was elected to the cortes as a representative of the province of Rio de Janeiro. But his political preoccupa-tion did not seem to interfere with his clerical functions. He was named bishop of Elvas, but declined, and in 1818 was appointed inquisitor-general. The bishop is also the author of a memoir on the conquest of Rio de Janeiro by

Dugué Trouin, in 1711.

AZEVEDO Y ZUNIGA, GASPARD DE, count of Monterey, a Spaniard who, in 1603, succeeded Luis de Velasco as viceroy of Peru and Mexico, died March 16, 1606. He equipped a fleet to search for the great southern continent, which, under the command of Pedro Fernandez de Quiroc, discovered several islands at about lat. 28° S.

AZIMGHUR, a town of Hindostan, capital AZIMGHUR, a town of Hindostan, capital of a district of the same name, in the presidency of Bengal, on a tributary of the Ganges, 60 miles N. N. E. from Benares. It has cotton manufactories and considerable commerce in cotton goods. It was ceded to the British, in 1801, by the nabob of Oude.

AZIMUTH of a star, the bearing of a star or other heavenly body.

or other heavenly body; that is to say, the angle which a vertical plane through the star makes with the plane of the meridian; used in finding the bearings of other objects.

AZIO, a village of Greece, on the gulf of Arta, in the district and promontory of the same name, but better known under the ancient same of Artisms.

name of Actium. A German archæologist,
Dr. Erlinger, succeeded, in 1857, after several
years' investigation, in ascertaining the position of the camps of Antony and Augustus,
precisely as it was on the eve of the battle of
Actium. He found the camp of the latter sur-Actum. He found the camp of the latter surrounded by a cincture of redoubts about 5½ miles in extent, which were constructed in stone, and protected by a ditch. At a distance of about 1,000 yards the remains of square towers and various projectiles, arms, and accourtements were found. In the centre of the camp were the head-quarters of Augustus, occu-pying a superficies of about 1,000 yards. In advance of the camp were external works, consisting of several small forts of observation, sisting of several small forts of observation, one of them serving as a telegraph for communicating with the fleet. In the rains of one of these forts was discovered a tablet in steel, on which signals are traced, resembling somewhat those of the adrial telegraphs. The camp of Antony has not yet been so closely examined, but the investigation of the same is expected to yield equally interesting results.

AZKAR TUARIK, an African tribe of the Tuariks, who inhabit the desert country between Ghat on the north and the tracts

between Ghat on the north and the tracts of the Kelowi Tuariks on the south, between lat. 21° and 26° N. They were first visited and made known to the European world by the British central African expedition of Barth, Overweg, and Richardson, who traversed the Azkar country in the months of July and August, 1850. Dr. Barth describes the country from N. to S. as a harren plain, with

scarcely any vegetation, and wi its peaks, and few or no eximal portion, bordering on the Ke the uninhabited central region desert. The northern portily dotted with patches of I desert. the villages the travellers a and ghèdeb, cultivated in con The Akakus range, 70 miles dead level. Mt. Idinen, o Demona," is about 2,400 a bullocke sheep cares all implicates sheep cares all implicates sheep cares. bullocks, sheep, asses, all im dan, are to be found in th Ghat, the only commercial empo lat. 24° and 25° the travellers of elevated wilderness of bleak a fantastic form, 4,000 to 5,000 regetation and water in the re of these mountains they met a n lakes of fine, clear water, in a immense cliffs. Between 25° the mountain region of Anabel, wild oxen and gazelles. At 23 wild oxen and gazelles. At 23 the reached Wady Arokam, an imme bordered by lofty precipitous rock of trees and herbage, one of the grap prospects seen by the expedition southern region they observed blockle and quartz. The inhabitants of the rest of the Tuarika, belong to and not to the negro race. They a Mohammedans in religion, hating and Christian. They are monogram and Christian. They are monoga are a warlike aristocracy, divided or clans, and subdivided into 30 fayas, each of which has a set subject class, or helots, probably the of vanquished tribes, are called he viles. While the women of the retelerably fair, those of the servil black, but nevertheless well made without pages 1. without negro features, but gen regular physiognomy. Whether is the same as that of the Azis not sure. The Imghad are sections, and furnish 5,000 warrighad live solely in the oases of re not allowed to reside in are not allowed to reside Barakat. The ruling ralabor of the serfs, and all they raise from caravana allowed to carry an iron a which is the distinction of Richardson's "Narrative tral Africa," London, 185 in Central Africa," London AZMARI, the name apprant beggars in Alsysina the music bands of the All the rest exercise their n

the rusic bands or the the rest exercise their street, especially on reli AZO, or Azzo, or A Italian lawyer, died is jurisprudence at Bologo the college could not o so that he had to take t

or Azov. I. The ancient Palus ea in southern Russia, or in the rope. Its length from the sande Crimea, north to the mouth is about 212 miles; breadth, shallow, marshy, scarcely nav-essels, encumbered with sandrally muddy at the bottom. e to a great distance from the the wind is strong either E. sea is covered with ice from o March; is full of fish; and nave formerly communicated by a strait still indicated by d. It is connected with the e narrow strait of Yenikale, Cimmerius of the ancients. and this strait there was in to be a mysterious region, of witchcraft, and of the arts . The Orphean Argonautica osphorian Cimmerians around erborean Mæotis as of men e light, and who guarded the heron and the Elysian fields. Cimmerians or Kimmerians, ntiquity, invaded Asia Minor, emplo of Diana at Ephesus. stopping-place of the Asiatic n, Finnish, or Mongolian race, is names, successively invaded at times from the 4th to the Azor, a town and fortress country of the Cossacks of eminence on the left bank of s founded early in the Grecian colonists trading on the shores d was called Tanais, after the lle ages it was called Tana. It sion of the Venetians, and then o gave to it its present name.
to decay, as the city Taganof the river, monopolizes the

'S, from the Spanish azogue, so called from their carrying ain to the Spanish West Inne silver from the mines of

TESTERN ISLANDS, a series of th Atlantic ocean, ranging be-and 39° 44' N., and long. 31° 7. They are divided into 3 th-west consisting of Flores ls; the central composed of ze, Pico, Fayal, and Graciosa; f St. Mary and St. Michael. ice the sugar-cane, the coffee f various kinds in perfection. nic origin; and in 1808 a volisland of St. George to the eet, and discharged floods of 1 ruin over its whole surface. sea to the height of 300 feet, vast quantities of lava, stones, п.—28

and cinders, gradually disappeared. These islands were taken possession of by the Portuguese government in 1432, then uninhabited. Their inhabitants are quite ignorant of the science of agricul-ture. Their implements are of the rudest kind; and they rely rather upon the spontaneous fer-tility of the soil than upon their skill for returns. tility of the soil than upon their skill for returns. The lupine is the favorite and general food of the poorer classes, after its bitterness has been extracted by treating in salt water. The Azores annually export upward of 17,000 pipes of wine and brandy, and 160,000 boxes of oranges and lemons. They also export coarse linen, salted pork, and beef. There is no good harbor. Pop. 203,500.

AZOTE. See Nitrogen.

AZTEC. This term, although generally used as synonymous with Mexican, is strictly applicable to one only of the various tribes or nations who, at the time of the conquest, in the 16th

who, at the time of the conquest, in the 16th century, occupied the plateau of Anahuac or Mexico. It is derived from the Nahuatl words Mexico. Mexico. It is derived from the Nahuatl words aztatl, heron, and tlan or titlan, place, or place of, i.e. place of the heron, one of the earliest seats or halting places of the seven Mexican tribes, viz.: the Xochimilcos, Chalcos, Tepanecas, Acolhuas, Tezcucans, Tlascaltecas, and Aztecas or Mexicans. These tribes collectively bore the name of Nahuatlecas, and their language was called Nahuatl, which is its proper designation. Tradition variously represents these families as emerging from 7 caverns, in a region called Aztlan, or as wandering away from their fellows, subsequently to a ing away from their fellows, subsequently to a grand cataclysm, and after a distribution of within the domain of history, and critical writers have generally preferred to confine their researches within the period fixed by the Mexican paintings or records. Several of these are in existence, and although differing considerably in their chronology, they do not carry back the history of the Aztecs and their affiliated tribes beyond the 11th and 12th centuries of our era. There is abundant evidence, nevertheless, that the plateau of Mexico was occupied for many ages anterior to the arrival of the Nahuatlecas, by a people of much higher culture, of whose civilization that of the Aztecs was but a rude reflection. This earlier people has been vaguely denominated Toltecs, a corruption of Tulhuate-cas, and its original seat is to be looked for in Chiapas and Guatemala, where the ruins of Nachan (Palenque), Olosingo, and the other Palmyras of that magnificent tropical region, raimyras of that magnificent tropical region, still bear testimony to the skill and power of their builders. The locality of the traditional Aztlan has been a subject of much speculation. By some writers it has been supposed that this primitive seat of the Nahuatlecas was in Asia and that the pointings all of which dein Asia, and that the paintings, all of which de-pict the passage over a body of water in canoes from that continent. Most, however, imagine Aztlan to have been somewhere to the north of Mexico, beyond the river Gila. This idea

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seems to have originated in the early and vague accounts of the existence, in that region, of vast ruined edifices, which were supposed to mark the steps of the Aztee migration, and which, under the name of Casas Grandes, have given rise to much speculation. These ruins are now known to be only the remains of such edifices as are still built by the Moquis, generally by what are called the Pueblo Indians of New Mexico, who, as was long ago pointed out by Torquemada, have neither language nor habits in common with the Mexicans proper. It is worthy of remark that no native history, chronicle, or known hieroglyphic of the Mexicans, assigns a northern origin to the Aztec tribes, except the relation of Ixtlilxuchitl, who wrote a considerable period after the conquest, and who in this matter only followed the Spanish authors who had preceded him. In the painting representing the migration of the Aztecs, originally published by Gemelli Carrera in his Giro del Mondo, the sign or hieroglyphic of Aztlan is accompanied by the representation of a teocalli or temple, by the side of which stands a palm tree—a circumstance which excited the astonishment of the cautious Hum-boldt, as opposed to the opinion that Aztlan was to be looked for in a northern latitude. The palm certainly points southward as the direction whence the traditional migration took place; and this indication is supported by the fact that a people speaking the same language with the Aztecs (the Nahuatl), and having identical habits, laws, and religious observances, existed as far south as Nicaragua, and at the time of the conquest occupied nearly the whole of the present state of San Salvador, in Central America.—Passing however, from the question of the locality of Aztlan, the next question concerns the date of the departure of the 7 tribes from that place. According to Gemelli's painting, this event happened in the year 1038 of our era; according to the astronomer Gama, in 1064. Veytia follows Gama; but Clavigero fixes the period nearly a century later, in 1160. But great uncertainty is attached to all dates pre-But great uncertainty is attached to all dates previous to the foundation of the city of Tenuch titlan or Mexico, which event all accounts concur in fixing in the year 1824 or 1325 of our era. Tradition and the paintings represent, that various halts and stoppages took place leaving Aztlan, before the 7 tribes read to the veltage of the part of the par the valley of Mexico; and the time occupvariously estimated from 56 to 168 years. According to the painting obtained by Boturni representing this migration, they made not less than 22 stoppages, varying from 4 to 28 years in length—altogether occupying 163 years, before reaching Chemultones. It does not appear in length—altogether occupying 100 years, so-fore reaching Chapultepec. It does not appear that the various tribes all arrived at the same time in the valley of Mexico, but came in and took up their positions successively. They found the country rich and attractive, and occupied by only a remnant of an anterior and powerful people, who had left numerous monu-ments of their greatness. From these they

learned many of the arts of life, the cui, of the soil, and the working of metal first they seem to have lived in harma each other; but gradually the stream began to encroach upon the weaker, white to combinations for defence among the and to a long series of bloody forms and The Mexicans (subsequently so called Mexi, one of their war-chiefs ranked 7th tribe, and seem to have assume name of Aztecus pur excellence. They we tablished first at Chapultepee, but gradus croached upon the Chalcos, and fault, the lead of a succession of military dis came the most powerful tribe in Araha established their imperial city in the a Chalco. This event took place in 1824 of under the reign of Tenuch, and the d or Tenuch. The site, like that of —a few low islands in a great lake admirably chosen for defence, and the M exhausted their art in strengthening the tion. It could only be approached on and narrow causeways, easily defeads which even the Spaniards were ness in forcing. Commanding the lake we merous fleets of boats, they were una from the water. From this strongho gradually reduced their neighbors, the panions from Aztlan, or forced them ist of dependent alliance, which served stil to build up their power and influence; at the time of the arrival of Cortes, the emperor exercised a qualified domin nearly all the aboriginal nations embra in the present boundaries of the re Mexico. This power was often exerci-out mercy, and many thousands of t tured enemies were sacrificed on the their sanguinary divinities. How seve yoke was felt, and how eagerly it was off, is shown by the readiness with off, is shown by the reasonable, joined lards in their attack on the Mexican The student of Mexican history cases the reflection, that with its prestice, p valor, had the Spanish invasion another century, the island city of Temight have might have spread its dominion North American continent—or as it could have found organize to conquer. The only state we thing like an independent position borhood of Mexico, was that of better known, from their capital. Under a succession of able up a kind of alliance with the a high position civilization. The of aboriginal ernment among the Mexicans ive monarchy; and the hig resided wholly with the king tration of the laws belonged to onducted with

inary in most of its practices; the elements of a milder systan that of their Tulhuatecan ose religion was closely allied ystem of India. As essentially, they made the highest beatith the rewards of the bravest hile the soul of the common ath, was believed to be subatorial existence, that of the in battle, was caught up at 3 of the gods, to the bosom of en of eternal delights. In the ally in their architecture, the ed an advance corresponding ical and political growth; and at the outset supported only and thatch, came finally to be uposing edifices of stone and b. Metallurgy was extensively old and silver, copper, and a were well known and elaborut iron, except in its meteoric wm. It would be impossible, in article of this kind, to indightly, the political, social, and is, customs, and organization ag people, whose subversion ramatic incident in the history. Fortunately the sources of its subject are open and easily pages of Sahagun, Solis, Clavi-

tt. To the published data, it is to add the following chronoan unpublished Mexican paint-

enico Alberto, an eminent r on maritime law, was born rdinia, Aug. 3, 1749, and died anuary, 1827. His most intitled Droit Maritime de l'Eued in 1805.

tomez Eannes de, a Portuguese t Azurara, in the first half of ed in the latter part of that a monk of Evora, was early it order of Christ, passed his ercise of arms, and only when evoted himself to those studies is his reputation. He was facarning of his time, and wrote id vigor of style which gained of his contemporaries, and the of the royal poet and cavalier, 1459 he was appointed by the

cortes to reform the archives of the state, and destroyed numerous papers which he judged useless. The extent of the disaster was, however, limited by the zeal of several persons in taking copies of valuable documents. His principal work, for writing which he had the advantage of a residence in Ceuta, was a chronicle of the discovery and conquest of Guines, the great object of Portuguese enterprise, under the patronage of Prince Henry, in the early part of the 15th century. This authentic and highly esteemed record was discovered in the Bibliotheca Impériale of Paris, in 1837. It was published by the Portuguese ambassador, who transcribed the MS. with his own hand, and is a book well deserving the care which has been bestowed upon it.

AZURE, the blue pigment produced by melting a mixture of a salt of cobalt with quartz-sand and potash. This colored glass, ground to an impalpable powder, is the azure, or more commonly called smalt, which is used for coloring porcelain and pottery, by melting it with the glazing.

called smalt, which is used for coloring porcelain and pottery, by melting it with the glazing.

AZYMITES (Gr. a privative, and ζυμη, leaven). About A. D. 1025, a violent controversy arose between the Greek and Latin churches, on the kind of bread which should be used in the sacrament. The Latins claimed that unleavened bread should be used, and it certainly had been in the western church, since at least the 9th century. The Greeks, on the other hand, maintained, in the person of Michael Cerularius, bishop of Constantinople, that the use of unleavened bread was a remnant of Judaism, and that therefore common bread should be used. This controversy ran very high. From it grew the terms Prozymites and Azymites, or Fermentarians and Antifermentarians, epithets opprobriously applied on both sides. One party endeavored to sustain from John's gospel, that Jesus kept the supper with his disciples one day before the passover, and therefore, that he must have used leavened bread; while the other endeavored to reach a different result from the other evangelists. The unleavened bread, or wafer, is still used by the Roman Catholic church, while the leavened bread seems to have come into general use in Protestant churches.

AZZANO, a village of northern Italy, in the Lombardo-Venetian kingdom, 8 miles S.S.W. of Verona, and having 420 inhabitants. Here the Austrians were defeated by the French in 1799.

Austrians were defeated by the French in 1799.
AZZIO, TOMMASO (frequently referred to under his Latin name, Thomas Actius), a learned jurist of Fossombrone, in the pontifical states, who flourished at the end of the 16th and commencement of the following century, celebrated by his various publications on jurisprudence, and chiefly by his treatise on the game of chess, from a legal point of view. This appeared at Pesaro in 1583, under the title of De ludo Scacorum in legale methods (of which one copy is to be found in Philadelphia), and which was afterward added to the 7th volume of the Tractatus Universi Juris.

the second letter and the first consonant in many alphabets, as the Hebrew, Phenician, Syriac, Greek, Latin, Italian, French, English, and all having any philological affinities with them. In the Ethiopic language B to the better than the stranged a labial from its is the 9th letter. It is termed a labial from its being uttered by the lips instead of the tongue, and also a mute, because the sound of the pre-ceding vowel is entirely arrested in the closing of the lips. It is the simplest and first-acquired consonant uttered by the human voice. It also enters more largely than any other consonant into the cries or calls of animals. It is lacking in most of the dialects of our aboriginal Indians, who speak with open mouth. It is a letter which in all languages wherein it is found, has been freely interchanged for certain other let-ters. Those with which it has been most com-monly interchanged are F, P, and V. Such interchanges will not appear strange when we notice that these consonants are all labials, and differ only in the manner, so to speak, of letting the sound escape from between the lips. By the careful study of consonant exchanges, we may discover the most remarkable affinities of may discover the most remarkable affinities of languages, which would otherwise escape notice. From the interchange of B with F, we have life-guard instead of body-guard from the German leib, body. From interchange of B with V, we render the Latin habere into the Italian arcre, and the English hare. By observing this interchange we discover the unity in the paradigms of many Latin verbs, as amo, where the imperfect and future take an inflection with b for the consonant part, while the perfect and pastconsonant part, while the perfect and past-perfect and future-perfect inflect with r. In Spanish the same interchange is common, under certain circumstances. In modern Greek B seems to be equal to V, as in Basthevs, which is pronounced casilefs. B is interchanged with P in Latin, as opponers, for oh, poners, in German at the end of a word, and in Armenian at the beginning. Thus B a 1 It stands also in Laum ancient form, duellum, win our duel. The name to oriental languages Bet. in Bocok, in Russian Bouki. is a French phrase, to designate an person, because all halt, blind and I persons were traditionally supposed we sessed of evil spirits, and the French we these misfortunes all begin with B. I second dominical letter.—B. in music b second dominical fetter.—B. In music nominal of the 7th note in the natural scale of C. In solmization this note as Si. Guido, in reconstru-nished syllables for the 6 to A. A., only. Dr. Nevers, a Fr

the last century, is said to have been the

to designate this note by the syllable & BAADER, FRANZ XAVER vox, a General taphysician, born at Munich in 1766, there May 23, 1841. He was afficial somnambulism in his childhood, and every not in a somnambulistic state, he distant the peculiar characteristics of thought belong to a mystical temperament, and vent in his various writings and from his chair of speculative theology university of Munich, to which he w pointed in 1826. He studied medicine a mineralogy, and for some time he was by the Bavarian government in mining veying departments, but his heart wan any of these pursuits. The religious clean ponderated in his nature, and he streams posed the pantheistic tendencies of Se Hegel, and their compeers. He calls Formerta Cognitionis, principally with a calling the attention of the public a Germany to Bohme's philosophy. In he belonged to the ultra-conservative and in his little work Teber die Russelle work and in his little work (ever die ha des positiven Rechtsbestands, he oppa novations in matters connected with religious affairs. He was not a man thought, but his indefstigable indus cient to secure a lasting consideration name. His chief works are "Lect Religious Philosophy in Opposition to ligion of both Ancient and Modern "Demonstration of Ethics by Physics moir upon Elementary Physiology;" lute Extravagance of the Practical In Kant;" "Memoir on Physical Dy Kant;" "Memoir on anymod to de "Principles of a Theory destined to d and Foundation to Human Life; Ideas of Immortality as Opposed to Us

BAAL TO mifes k delty, by the

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en apprehended as a duality under

generation and conception, and ith the distinctions of sex. Thus h male deity, whose female correlshtoreth or Astarte. As Baal was as the sun, so Ashtoreth was the Astarte, queen of night." Baal was Astarte, queen of night." Baal was Bel or Belus of the Babylonians whose language was cognate to l Phœnician. Some conjecture and Phœnician. rresponds in Chaldean mythology in the Grecian; but following the of the sexual representation above we shall rather find Baal to be the upiter of the classic mythology, reth has her counterpart in Aphro-us. Indeed, at Hieropolis in Syria, ally informed, there was a temple to worshipped under the name of ollateral with these, may be placed id Isis of Egypt, and the Gad and quently mentioned in the scriptures, Jews worshipped in the days of wing incorporated them into their from that of the Phœnicians or How widely spread, and thereagenial to the early religious appremen, the worship of this duality as, we may judge from the facts of ne Scriptures give us an account y with which the Jews embraced, city with which they retained the Baal (who was the same as Moloch). ne 16th king of Judah, set up altars oves and high places, prepared for made his children pass through the god, and set up an image of Astarte no less in-Israel also was his departure from the monotheism aic system, to the duo-theism of in Samaria, the capital of Israel, volt of the 10 tribes, Baal was ex-orshipped, until the time of Jehu, yed the altars of Baal, and tore igh places of his worship. When re reproved by the prophet for their re reproved by the prophet for their y insisted that ever since they had ficing to the queen of heaven, they nsumed by sword and famine. As e times of the Judges, the whole he served Baal and Ashtoreth, and ary of Palestine geography attests; h domestication of Baal-worship inhabitants, in the frequency with rord Baal appears as a component names of towns and cities, as Baal-leon, Baal-peor, and Baal-zephon. Baal-worship have descended either Jews or the Gentiles even to our nd exist to-day in nearly all Chrises. In Sir John Sinclair's statistical Scotland, he describes a ceremony to be celebrated in Scotland on the (O. S.), in which the inhabitants of aving assembled in a field, dug out nch in which they built a fire and

baked a cake, and cutting it into as many pieces as there were persons, and blacking one piece over with charcoal, threw them into some convenient receptacle, when each one blindfolded, drew a piece. He who drew the black piece was sacrificed to Baal, to propitiate his favor for the coming year. The same ceremony is still observed in some parts of Scotland and Ireland, except that the person who draws the black piece is made to leap 3 times through the flames, instead of being sacrificed, a similar substitution to that instituted by Manasseh, who "made his sons pass through the fire to Moloch." This ceremony is known by the name of Beal-tine, or Baal-tine. The same rites are celebrated in Sweden, Norway, Germany, and nearly all the European states.—It will be remembered that the Rev. J. L. Porter, missionary at Damascus, in his excursion to the summit of Hermon (1852), found on the top of that mountain and 3 other peaks of the Anti-Lebanon range, the remains of structures of very high antiquity, and which he conjectures to have been temples of Baal, from their similarity to the ruin on Mt. Greenan in the north of Ireland, so celebrated as the great sanctuary of sun-worship. That such temples or structures actually existed in the promised land before the entrance of the Israelites is evident from the command given to Moses (Deut. xii., 2, 3), to destroy them. It is certain also that they were built in the mountains of Judea and Samaria by the Jews at least thrice after that, in the reigns of Rehoboam and Ahaz. These circumstances go to show how widely spread was the worship of Baal.

BAALBEO, an ancient city of Syria, famed

how widely spread was the worship of Baal.

BAALBEO, an ancient city of Syria, famed for its ruins, the most extensive in Syria, with the exception of those at Palmyra. Baalbec in the Syrian tongue, signifies city of the sun; the Greeks translated it into Heliopolis, under which title it is spoken of by both Josephus and Pliny. It is delightfully situated on a rising ground, immediately beneath the mountain range of Anti-Libanus, at the north-eastern extremity of the plain El Bekaa, in long. 36° 11′ E., lat. 34° 1′ N.; the great number of springs and brooks in the vicinity, by irrigating the soil thoroughly, must have added greatly to its attractions as a residence. Of the origin of the city we know nothing, and as the earlier classical writers make no allusion to it, we must inferthat it had at first a different name. Its properity must have been due, in great measure, to its situation on the high road of trade between Tyre, Palmyra, and India. It is even uncertain at what period the temples were erected; John of Malabar states that Antoninus Pius built a great temple to Jupiter here, but Julius Capitolinus, that emperor's biographer, does not mention it. From inscriptions on Roman coins, we learn that it was made a colony by Julius Cæsar; a military station by Augustus; and obtained the Jus Italici from Septimius Severus. It seems to have retained its prosperity down to the time of the Moslem invasion of Syria. The eastern writers describe in glowing colors its

stately palaces, its trees, fountains, and marble monuments of the past. After the capture of Damascus, it was besieged and finally taken by the Moslems, who exacted a large sum by way of ransom. It was sacked and dismantled in 748, and ravaged by Timour Bey in the year 1400. The Metaweli, a barbarous tribe, afterward held it until it was finally brought under the Turkish sway by Djezzar Pasha. The pres-ent town, lying east of the ruins, is a wretched mud-built village, of less than 2,000 inhabitants. The two larger temples stand on a low ridge, west of the modern town. They lie at the southwestern corner of the ancient city, the ruined walls of which are still visible. These were walls of which are still visible. These were between 3 and 4 miles in circuit, faced with hewn stone, and had numerous square towers at moderate intervals. The greater temple stands upon an artificial platform, between 20 and 30 feet in height; with its magnificent peristyle, its immense courts and portioo, it extended a thousand feet from east to west. probable that it was never wholly completed. On approaching it from the east, you enter a magnificent portico, 180 feet in length, and 37 in depth. Only the podestals and its 12 columns now remain; the vast flight of steps which led up to it have also disappeared. The great portal, 17 feet in width, leads into a hexagonal court, about 200 feet in diameter, containing numerous rooms or recesses on the sides, all in a ruinous condition; on its western side another portal, 50 feet wide, brings you to a vast quadrangular court, 440 feet in length from east to west, by 370 in breadth. Around the sides of this court are numerous exedrae, with columns in front, they are 30 feet deep and elaborately ornamented with carvings. The vast peristyle, 290 feet in length by 160 in breadth, fronts upon the quadrangle, its columns, 54 in number, ori-ginally, are about 76 feet in height, and over 7 in diameter, usually consisting of 3 blocks only. This magnificent ediffee, of which only 6 columns now remain standing, was elevated some 50 feet above the surrounding country, upon immense walls; the western of these contains 3 immense stones described by travellers. Their united length is 190 feet, the largest being 64 feet long, their average height 13 feet, their thickness still greater. Long vaulted passages run beneath the great quadrangle, from side to side. The lesser temple, which, like the other, is of Corinthian architecture, stands upon a lower platform, a little to the south of the peristyle of its greater neighbor; its length, including the colonnades, was 225 feet, and its breadth 120. Its peristyle consisted of 44 magnificent columns 45 feet in height, of which only 19 remain standing; many of the fallen ones are scattered around. The carvings of the entablatures, the ceilings, and upon immense walls; the western of these concarvings of the entablatures, the ceilings, and the capitals of the pillars, is exquisitely done. The great portal is over 21 feet broad, its sides and top beautifully sculptured; on the lower surface of the latter is the figure of the celebrated greated and by halding a reducery in his brated crested eagle, holding a cadac

talons, and in his beak long garlands, the supported by flying genii. But it is impart to describe the architecture of the tengine detail; reference may be made to the draw and explanations of Pococke, male in it the great work of Wood and Dawkin, in it the description of Volney, in 1754; and the count given by Robinson, who visted the in 1852. That which most impress that tator, is the wonderful symmetry of proper which communicates an air of lightness beauty to these stupendous masses. He difficult to believe that the graceful of still standing are equal in bulk with the menso shafts lying prestrate beside than can only satisfy himself of the fact by measurement. From the character of the tecture of these temples, it seems impart that they were constructed at a very period; though vast and massive like to Thebes, they have little else in command immense platform on which they stand only portion of the fabric which migh been rearred in a primeval age. Some least of this huge pile, stands a very sucular temple, elaborately ornamental; time of Pococke's visit, the Greek Ca had converted it into a church. The i used in the construction of the temples town.

BAAZIUS, JOHAN, a Swedish diviborn at Gardesby, near Wexio, in the of Smaland, in 1581, and died at Wexis After some years of study in his native he visited the universities of Wittanha and Helmstadt, and upon his return pointed rector of the gymnasium at Wisharp letter, breathing a bitter and put timely zeal, drew upon him, in 1636, pleasure of the convention of bishe quarrel, however, was arranged, partly the intercession of the queen and part count of the ample apology offered by In 1647 he became bishop of Wexia. lished a great number of theological which the most important is Inventoral state Steo-Gathorum (1649).—His see BAAZIU ping, July May 12 bishop. He tool affairs reputation and part of the summer of the summer reputation and a summer a summer and a s



h as he put to death a Moor the British consul.

HEHER-BABIO, OF SHEHER-E-BAity of Persia, in the province of is a very fine market-house, the centre of the city, and com-long street, with each of the he seat of the deputy-governor, for its fruit-gardens.
, a town of European Turkey,

of Bulgaria, on Lake Rassein. of Bulgaria, on Lake Rassein. are chiefly engaged in the alt, and in fishing. It is renumber of its mosques, and for 3 miles long. Pop. 10,000.

Anton, a Hungarian partiborn at Ofen, Feb. 12, 1813. Is for a moment carried away

ent of 1848, and went with a enna, to ask from the emperor an independent administration soon returned to his original 9 he held an administrative ofian army under Gen. Haynau, e was appointed chief commis-

airs for Hungary.

HARLES, an English mathema190, educated at Trinity college, early conceived the idea of a ie, and visited the workshops of the continent for the purpose ninery. Part of the results of nbodied in a volume called the anufactures," and another part ngine, which was commenced of the government, but under of Mr. Babbage, in 1821. In 12 d been spent upon this engine, perfected that it was used for ble tables, among them an exlogarithms. In 1834 he comlogarithms. In 1834 he comign of another and far more, which has not been built. s called to the Lucasian chair t Cambridge in 1828, and held 11 years. Beside the work o 11 years. Beside the work d, he has published a remarkareligious essays under the title ridgewater Treatise," and sev-e state of science in England. ten on geology.

METAL, a soft alloy invented bitt of Boston, and applied to es for axles and gudgeons, with inishing the friction, abrasion, as producing economy in oil.

xes are extensively in use in
f steamboats and locomotives
United States. The alloy is United States. The alloy is ws: to 4 lbs. of melted copper anca tin are gradually added, ulus of antimony, and then 12 1, the heat after the copper is 2 t low—at a dull red. A little al on the metal protects it from 3 alloy is called the hardening. For use for lining 1 lb. of it is melted with 2 lbs. of Banca tin, the second melting being more economical than to melt all at once. The box or article to be lined is cast with a recess for the reception of the soft metal, and its inner surface is tinned over to cause the soft metal to cohere. A hole is drilled through the side of the box, through which the alloy is poured into its interior.

BABEL (Heb., confusion), in Scriptural history, a tower recorded to have been commenced by the immediate descendants of Noah, soon after the flood, and arrested by a divine interference confusing the speech of the workmen. This tower, with all pertaining to it, is involved in great obscurity awing to the corruption of in great obscurity, owing to the corruption of traditions, the mutilation of manuscripts, and the decay of matter. The tower of Babel claims to be the first monumental work of the postdiluvian world, and therefore, according to Christian chronology, carries us back a little more than 4,000 years. Modern explorations, though they give us much that is explorate continuate the region of Polynomia. cerning the ancient city of Babylon, near which the tower is supposed to have been, have done little to lift the veil from Babel itself. Of the form and size of this structure we can affirm little and prove less. In regard to form, the little and prove less. In regard to form, the only thing that can be offered is a conjecture that in the simpler ages of architecture the square or triangle was more likely to have been used than the more complicated geometrical forms for the base. With regard to the object of this structure many speculations have been indulged—as that it was designed as a protection from another deluge, should such an event occur, or that it was to centralize and consolidate the human family, or that it was a fanciful way men had conceived of scaling the battlements of heaven. There is, however, a very plausible explanation of the objects of these builders which has received less attention. The Scripture says, "Let us build a tower whose top may reach unto heaven." Hebrew scholars translate this "whose top may represcholars translate this "whose top may represent heaven." If we have the location of Babel correctly determined, it was in the very heart of Baal-worship, from which has gone out a religious myth more persistent and extensive than any doctrine or tenet of any known religion. Chronologically, it was the earliest public and permanent expression of human thought after the flood, and a thought which, in the disastrous termination of its attempted embodiment, was disseminated to the 4 quarters of the globe. Baal-worship was the worship of the heavenly bodies, and of fire and light, those forces of nature which so sponand light, those forces of nature which so spontaneously challenge the reverence of the unsophisticated heart. The name of this tower has been etymologically derived from bab, a gate, and Baal, or Bel, thus rendering it "the door of Baal." Therefore it represented, or stood before, the hosts of heaven. Samaria was, in later days, the centre of Baal-worship, after its introduction among the Israelites. The

prophet Isaiah says in denouncing the woo of Israel, "Shall I not as I have done unto Samaria and her idols, so do to Jerusalem and her idols?" And then, where in the 9th verse of the chapter we read, "Is not Calno as Carchemish? Is not Samaria as Damascus?" the Septuagint renders, "Have I not taken the region above Babylon and Charlam, where the tower was built?" Now so close a connection in this allusion between the idols of Samaria and Damascus (which were the idols of the Baal-worship), and the fate of the region where the tower was built, would seem to be an expression of the view Isaiah had of the purposes of the tower—that it was a temple for Baal-worship. Calmet supposes both the purpose and structure to have been similar to those of the Egyptian pyramids. If the worship of Baal was the object of this structure, then that of Ashtoreth was associated with it, and then the resemblance to the pyramids seems still more complete, for these were used in the worship of the dual forces of productive nature, Osiris and Isis. And if the Jupiter and Venus of the Greek and Roman mythologies and the Gad and Meni of the Phœnicians and Carthaginians be taken as expressions of the same religious faith, we have a universality and unity to this conception which must have had just such a chronological birth and radiating point as the tower of Babel furnishes. The tower probably gave the name to the city and province—Babylon and Babylonia. Much error and confusion has probably sprung out of supposing that the tower of Belus is the same as Babel. (See Babylon.)—A legend similar to the Hebrew account of the tower of Babel was employed by the Mexicans to ex-plain the origin of the temple of Cholula, near the modern city of Puebla. See Humboldt's plain the origin of the temple of Changain, the modern city of Puebla. See Humboldt's Vucs des Cordillères, pp. 31, 32, and Prescott's "Conquest of Mexico," vol. iii., pp. 380, 381.

BABELMANDEB (Arabic, the gate of tears),

the strait lying between the shores of Arabia the strait lying between the shores of Arabia and Abyssinia, and uniting the Red sea with the Indian ocean. Its width, at the narrowest point, is about 20 miles. It contains several small islands, the largest of which, Perim, divides the strait into 2 channels, and, in a military point of view, commands it. This island was seized, Feb. 1, 1857, by the British during the Persian war, and is still held by them. Of the 2 channels the eastern, and lesser, is chiefly the 2 channels the eastern, and lesser, is chiefly used; it is from 1½ to 4 miles in breadth, with a depth varying from 7 to 14 fathoms. The western channel has a depth of 180 fathoms. The strait takes its name from its dangerous navigation

BABENHAUSEN, until 1806 one of the 330 separate states of which at that time the German empire consisted, and since then mediterman empire consisted, and since then meaning atized and attached to the kingdom of Bavaria, province of Swabia. It lies 25 miles south of Ulm, and is the property of the princes Fugger; area, 175 sqr. miles; pop. about 12,000.

BABER, or BABBA, or BABBA, an island about 20 miles long and 10 wide, in the Indian

archipelago, in the same latitude with in the direct line between Timor and T Laut. The island is mountainous but as elevated; the soil is fertile; wild for and game abound, and the adjacent water in a plentiful supply of fish. There are a ments on the eastern and western dorse island, and the inhabitants of they repe sides make it their employmen: to kilas dren and young persons each of the whom they either sell to the vessels that to the island, or enslave them on the al Dutch formerly had a settlement on the a but it is abandoned.

BABER, or BABOUR. ZAHIR ED DES MA MED, Mogul emperor, born Feb. 14. 148 Dec. 26, 1530. He was a lined dose of Tamerlane, and his father was sin Khokan, a Tartar kingdom on the Ju On his father's death, which happend he was 12 years old, the kingdom was by his uncle, the sultan of barascas Baber opposed him, and succeeded in taining his rights. Baber's early life succession of wars with his neighbor & the conquest of his paternal do aim other chief determined his fate. I obliged to fly, and went to Khorassan followers, where he sought assistance is sultan, which was refused: a number of gols, however, joined his standard, an marched on Cabool in Afghanistan, w captured in 1504. In the following ye ing divided the conquered territory as followers, he determined on an exagainst the Afghan empire in Hindest he accordingly made an irruption into jaub and plundered Kohat. On this he did not cross the Indus, but rets Ghuznee to Cabool. In 1506 he be volved in dissensions in Khorassan by of the sultan, and for many years he cupied with attempts to recover his possession, and was obliged to defer 1 ions against India. At length, in again descended into Hindostan, again descended into flindostan, and the Indus, and, having conquered son in the Punjaub, he placed garrisons and retired. In 1524 he advanced to which he cap vanced south Delhi, on w e encountered the troops of he encounter Lodi, the Afgin pletely vanque he him are lieutenants at while his son, illuminating army, and Bassouth against the Hindoo prince at an end, Bassouth against his complete hims ideating his complete hims. for travellers;

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BABEUF 441

l gardens and introduced fruit blished a line of post-houses bool. He wrote his autobiogvaluable to the student of Hinwas succeeded by his son Hu-

tançois Noër, called Caius ich publicist and promoter of communism, especially known which he plotted against the t St. Quentin, in 1764, guillone, May 27, 1797. He first è, being an assistant surveyor of the department of Somme; d a book called Cadastre Per g a new system for the regis-On the outbreak of the revoied for the startling doctrines ied for the startling doctrines in a provincial journal, but He was then appointed ade department of Somme, but ely dismissed from that post, to Paris. Charged with being a was arraigned before the trivartment of Aisne, and again aturned to Paris in July, 1794, shed a journal, Le Tribun du nesur de la liberté de la Presse, eared at once as a reformer. eared at once as a reformer. cle with this maxim of Rous-Le but de la société est le bond with the assumed signature
13. This he followed up, by
lea of absolute equality in his
same time organizing a politibject of which was to diffuse
the rections. while resisting the reactionary irectory. This society, known irectory. Panthéon, soon acquired im-med the directory. Babeuf's aining ground every day, and designated under the name of active in circulating not only suple, but the pamphlets which his principal adherents occal. As early as the beginning ouvistes were looked on as so e directory, that, on Feb. 26, he club; but this measure only s to the party. In March folcommittee was organized, to o all the members; and in te des Egaux, a bold exposition ory, was disseminated among is. "We not only want equalth in the declaration of men's hts," said the manifesto, "we ng us, in our homes. Let all essary, provided true equality Agrarian law, or the has been the spontaneous wish oldiers or semi-barbarous tribes trather than reason; we aim e sublime and more just, the r the community of wealth. nal ownership of the earth;

for the earth belongs to no one. We claim the common enjoyment of its fruits; for these fruits belong to every one. We declare that we cannot any longer tolerate that the immense majority of men should labor and sweat in the service and at the discretion of a very small minority; for too great a length of time, less than 1,000,000 of individuals have had the disposal of what belongs to more than 20,000,000 of their fellow-beings, of their peers.

Henceforth there must be no differences between men except those of sex and age. Nearly all have the same qualifications, the same wants; therefore let them have the same education, the same support. We are satisfied with a single sun and a single atmosphere for all; why should not the same portion and quantity of food be sufficient for every one?" This manifesto was but an introduction to the plan of Babeuf, who aimed to organize society as a community ruled aimed to organize society as a community ruled by a supreme despotic power. The individual was to be absorbed in the abstract being called the state. He held that the individual, taken in itself, is a nonentity, the state is all; alone having existence, and alone guiding each of its members, soul and body. According to Babeuf, man is but a sort of mechanism, an au-tomaton, which moves geometrically and the babeut, man is but a sort of mechanism, an automaton which moves geometrically, and the decay of which must be prevented if we desire to prolong its life. It is therefore necessary to provide each person with "a healthy dwelling place, commodious and neatly furnished; linen or woollen garments fit for work and rest, and conformable to the national costume; washing, light, and fuel; a sufficient quantity of food in bread meet, noultry fish eggs butter or oil. bread, meat, poultry, fish, eggs, butter or oil; wine or other beverage, such as may be used in various countries; vegetables, fruit, condiments, and other things, the union of which secures a moderate and sober comfort." Is not this all, asked Babeuf, that is wanted for the sustenance of physical life? As for intellectual nourishment, it is but a useless superfluity; the automaton man who governs himself may easily dispense with it. Thus Babeuf decreed: "No philosophy, no theology, no poetry, no romance, no painting, no sculpture, no engraving, except by way of relaxation. Let whoever wishes be an artist, on condition that he returns to husbandry when wanted, and gives up the pencil or the chisel for the plough." As a consequence of such a system tem, education must be common and equal; males and females, however, being educated in separate institutions. No great contro of population, no cities, or at least few of them; no palaces, but commodious and uniform houses for panaces, out commodious and uniform houses for all; garments to be of different colors, according to age, sex, and occupation, but, with this ex-ception, uniform. All these regulations were to be observed to the letter, as Babeuf did not forget to bind his adherents by an oath of fealty to his system: "No one," he enjoins, "will be allowed to utter opinions contrary to the sacred dogmas of equality. Before being entered on dogmas of equality. Before being entered on the roll of citizenship, every one must neces-sarily make a public avowal of the communistic

All these doctrines were preached among the people, in connection with political opinions which still kept their hold on a number of men, who regretted the energetic system of the convention, and were dissatisfied with Their watchword was to be "The constitution of 1793, liberty, equality, common fortune, and the death of the usurpers." By skilful management, the Babouvistes succeeded in securing ment, the babouvises succeeded in securing the assistance of many citizens; they were beside upheld by several deputies in the two legislative assemblies, Drouet among them, the same who had arrested King Louis XVI. at Varennes. They proceeded with great secrecy, so that a mass of men unknown to each other report to get in convert, at the appointed time. were to act in concert at the appointed time; they had, moreover, brought over to their cause some officers of the army of Paris, then encamped in the plain of Grenelle, and they believed they could depend on several regiments, while they were confident that, as soon as the undertaking was in a fair way of success, the workmen of the suburbs would also come to their assistance. The plan for attack had been shrewdly devised: the sections of the 12 wards of Paris were to march simultaneously in three bodies against the palace of the directory, that of the military commander and the hall of the legislative assembly. At the same moment, detached bodies were to seize on the gates of the city, as well as the various places where arms were kept. All was in readiness, and the secret committee were deliberating on the proper moment for taking up arms, when suddenly they were all at once arrested by order of the disaster. the directory, who had received warning from an officer at the camp of Grenelle, and were aware of all their movements. Babeuf himself, who had remained with Buonarotti to prepare the manifestoes which were to give impulse to the insurrection, was taken by the police. The conspirators, 65 in number, were arraigned before the high court at Vendome. Babeuf defended himself like a man confident of the goodness of his cause; but the full discussion of his principles was not permitted. Although the evidence adduced against him was very weak, the jury would scarcely h l defence, and on May 26, 1797 (5th P l) V.), Bebeuf and Darthe were wood others, Buonarotti among aware of all their movements. Babeuf himself, others, Buonarotti among tion; the other 56 were a hearing of their conde Darthe stabbed themselves, judges, but not to death, and they still alive and bleeding to the scaffe roux and Robespierre had been been Beside his journal and his Cultutre P Babeat published In système de dépot ou la vie et les crimes de Carrier, wh most impartial history of that rea commissary of the convention.

BABI, the generic term 🗫 h language; as babi-utan, v babirum alfarus, hog deer;

hog, or mole; anak-babi, pig, literally hog. The name has been given to a number of islands which abound in hogs, throughout the Indian and I waters, a fact attesting in a remarkable the extensive navigation of the King. The most considerable thus named is a on the west coast of Sumatra, the di which, Simalu, or Bashful island lying lat. 2° 40′ and 3° N., has an area of m., and is surrounded by 16 isleta with a united area of about 30 sq. m. Repair of the state of t habited by a semi-barbarous, yet simple offensive race, called, by the Malays M offensive race, called, by the Malays land Maruwi, and numbering about 5.000 and the main island. A few buffalors and command cocoanut oil, are the only expert of group.—Another group of this name 40 portant islets in the Rhio-Lingua Ardiol lat. 22' N., long. 104° 17' E.; a small in this name, 3 m. south of Great Carma, 4 of Malaysea: another 3 miles west of Carma. of Malacca; another 3 miles west of Carmon, other, one of Aroe group, lat. 5° 35 %; min lat. 1° 43′ N., long. 97° 23′ E; min lat. 1° 43′ N., long. 97° 23′ E; min lat. 1° 43′ N., long. 97° 23′ E; min lat. 1° 43′ N., long. 97° 23′ E; min lat. 1° 43′ N., long. 10° 28′ another between Ombay and Weta lat. 8.; another, lat. 5° 48′ S., long. 10° 28′ Babi is changed to babui in the Philips in his later on the post of Larra. it is baue on the coast of Java; best Kayans, the chief of the Dayaks of b baboi among the Lampungs; but in the of Geby; buin in the island of Wayne, among the Sundese of Java; balin in the east of Java; balin in Ende; fuhi in Timor, east of the land Ende; fahi in Timor, east of the lift And as we proceed eastward, at them points of Malay intercourse in the find the word changed to busks in bot in the Vanikoro, while it is alm the puān of the Sandwich islands.

BABINET, Jacques, a French stat Lusignan, March 5, 1794. He the profession of law, which had lon in his family from father to son, for of science. He studied in the best France, and during the military cost.

He 1 France, and during the military co

1814, served as an officer in a retillery. After the restoration tillery. After the restoration professor of physics in the collin Paris, and in connection we Fresnel zealously devoted hims of meteorological and mineralog the archives of the scade the Philomathic society ex memoirs by him, upon this and also upon terrestrial ma of heat, and the measure An ingenious mechanicis provements in the constru nachine, and of atmo guniometers. BABINGTON, ator in behalf of 1

the versification very sweet. Their success afterward led her to publish her "National Elegies," and, just before her death, a poem of a more profound character on human life.

BAROO

and. This branch of the Babington Catholic, and smarted under the to which the members of that come exposed in the days of Elizabeth. I 20 years of age, Anthony became a band of zealous and enthusiastic had associated together to promote cause. In course of time, the mis-Mary forced her to flee to England nt, where, instead of being treated he was arrested and imprisoned as a he place of her captivity was not Dethick house. Her romantic hiscinating beauty, her religion, her I combined to render her an object nterest to Babington and his associated the securion and his associated the securion of the securion interest to secure Mary from her priselethey prepared for the execution me, a traitor among them commuto Walsingham all their plans and

ome, a traitor among them commuto Walsingham all their plans and
When the secretary had obtained
he issued his warrant for the arhole band. The greater number of
seized instantly. Babington, diseasant, eluded his pursuers, though
out time. When brought to trial he
the crime, but so far as the plot
e liberation of Mary, he gloried in
ras it concerned the assassination
, he approved it. It was no crime
tion to take the life of a sovereign
pt him and his brethren of all their
ta, and reduced them to the condiin the land of their fathers. His
intors, to the number of 13, were
ced, and executed some with him,
the day following. Babington was

the day ionowing.

had no children.

FON, WILLIAM, an English physiar Coleraine, in Ireland, June, 1756, 1838. As a physician his talents highest order, while as a man of reseminent in chemistry, botany,

To him is mainly due the forma-

To him is mainly due the formasological society in 1810. He pubtematic arrangement of minerals 35), and a new system of mineral-

ERPH MARIA von, a German drama-Ehrenbreitstein, Jan. 14, 1756, died . His best work is Otto von Witsich is, after Goethe's Goetz von , the best historical tragedy on the e.

AMBERT VON, a German practical agriculturist, born at Mannheim has written especially on the nature of the vine.

mas written especially on the naure of the vine.

MARGUERITE VICTOIRE, a French
at Versailles, Oct. 8, 1760, died at
8, 1839, began to write at the age
ceasion of the loss of a beloved
Her "Maternal Elegies" first ap05. They are tender and sad, and

BABOO, a title in Hindostan, equivalent to the English "Mr.," and usually applied to native gentlemen of wealth, education, and influence—as the Baboo Mutty Loll Seal, the Baboo Dwarkanath Tagore. The Baboos are Baboo Dwarkanath Tagore. The Baboos are distinguished by their generosity, hospitality, public spirit, and family pride, by their liberality in religion, politics, and social intercourse, and their "progressive" tendencies. Most of them take an active part in commercial affairs, and thus largely add to their considerable interitances. heritances. Among them are to be found all men of mark in the merchant caste—the banyans, or bankers, and confidential brokers—men of large and ready capital, whose means, for the most part, constitute the immediate resources of the foreign trade. Of such was the Baboo Ashootas Dey, who died in 1855; and of such are the Baboos Kalidas and Rajinda Dutt, and several of the Mullick family. It is among the Baboos of Calcutta that the "Young Bengal" party, an influential class of social, religious, and political liberals, finds its most active adherents. These mingle continually in friendly intercourse with sahibs, or Europeans of good standing, partake of their ideas, and gratefully court their applause, which is at all times the Baboo's sufficing motive for acts of munificent liberality in the endowment of works of public utility, whether in the cause of yans, or bankers, and confidential brokers-men times the Baboo's sufficing motive for acts of munificent liberality in the endowment of works of public utility, whether in the cause of education, charity, or internal improvements. The Baboo Dwarkanath Tagore was the found-er of an asylum for blind natives, and the gen-erous patron of every charitable institution in Calcutta; and the Baboo Mutty Loll Seal made public proffer of a dowry of 1,000 rupees to the first Hindoo widow who should have the cour-age to break through the ancient prejudices of The Baboo caste, and marry a second time. Ashootas Dey was widely known as the American banker; and the Baboos Kalidas and Rajinda Dutt are honored with the confidence and friendship of American houses in the East and rifendship of American nouses in the East India trade. Rajinda, the younger of the brothers, is a man of polite education and lite-rary tastes, beside having good practical knowl-edge of medicine. The free-thinking notions of the "Young Bengal" Baboos have led many of them into confirmed infidelity, and only the of them into confirmed infidelity; and only the legal disabilities attaching to infringements of -not to speak of the grave inconveniences, in a social point of view-induce these to keep up a pretence which, at heart, they scorn. The Baboos entertain their foreign friends in a spirit of ostentations rivalry, and there is always a familiar attendance of Europeans at their extravagant festivals. Their gardenhouses are furnished with much splendor, and adorned with imported cabinets, pictures, and statues, without regard to cost, though with but little discrimination; in fact, the taste of the wealthy European is the pattern to the

ambition of the modern Baboo. What Major Sleeman, the suppressor of Thurgee, said of the people of India at large, applies with particular force to the Baboos of the presidencies: "If, by the term 'public spirit,' be meant a disposition on the part of individuals to sacrificathic own principals of their own presents." fice their own enjoyments, or their own means of enjoyment, for the common good, there is perhaps no people in the world among whom it abounds so much as the people of India."

In 3 years the Buboos of the north-west proving the people of the proving the pro inces contributed 936,596 rupees to the erection of wells, tanks, bridges, and canals. One na-tive gentleman at Furruckabad built a bridge at the cost of 70,000 rupees. Up to the breaking out of the Sepoy revolt of 1857, the Baboos manifested, in a substantial manner, their interest in the application to India of railroads

and electric telegraphs.

BABOON, a division of the monkeys of the of Cuvier. This genus is characterized by the position of the nostrils at the very end of the muzzle, which is lengthened and truncated; the teeth are 32 in number, as in man, but the canines are remarkably strong, and the last lower molar has a fifth point; the ridges over the eyes are very distinct, and the occipital crest for the origin of the powerful muscles of the skull and jaws is as large in proportion as in the true *carnirora*; the face is lengthened, giving the appearance of that of a dog, whence the generic name, and in the adult is marked with longitudinal furrows. All the species have cheek pouches and callosities. The bacons are appearance to the avadrance and boons are among the largest of the quadrumana, and their strength is enormous; their disposition is fierce and malignant, and their habits are of the most degraded and disgusting character; they hardly possess a good quality, and are almost always rebellious in confinement and dangerous when at liberty. They are semidangerous when at neerty. They are semi-terrestrial; from the nearly equal length of the fore and hind limbs, they run well on the ground, and are also excellent climbers; their anterior extremities are remarkably powerful; their dispositions are exceedingly fickle, and they pass on the slightest provocation from a d condition into a paroxyam of rage; in a wild state they are attacked are most trained from their you trained from their yours, siderable degree of docility; be trusted. Their native their food is principally of fruits, roots, and the occasionally eggs and young on by them; in a state of captivity almost any thing-with their and fierce dispositions, it is fortunate that they are not carnivorous; if the their canines would make them more ... ble than the lion and the timer. cies the colors are bright, fine, forming a kind of a parts. They are ger

groups: the baboons proper, with long genus cynocephalus of Cuvier; and then with short tails, of which Brisson has a genus pupio. There are 6 well-marked 1. The chaema, or pig-faced habor (rius, Desm.) is a native of Africa, in 1 borhood of the Cape of Good Hope. is greenish or grayish-black above, the flanks and fore part of the should hair on the neck of the male solution name of comatus; the face and extra violet black, paler round the eyes; eyelids are nearly white; the tail is l tufted. This animal is exceedingly f even when brought up from youth in a in its native haunts it hunts gre scorpions, which it devours alive in ge tities, having first, with exceeding q broken off the end of the tail costs sting. II. The dog-faced babana (C. la Linn.), an allied species, inhabits Af the borders of the Persian gulf in The color is blackish-gray, tinged will the hair on the fore parts is very shaggy; the face is flesh colored; the and young have short muzzles, color. It is equally fierce and de color. It is equally heree and dampine the preceding, of which by some and considered a variety. III. The Game (C. pupio, Desm.) inhabits the coast of The color is brown above, paler benchesks are yellowish; the face, hands are black; the masal carting the joint in least the transfer. the jaws in length; the up white. In the young the muzzi the upper in the adult, in this as in all the This animal is of large size, at IV. The little baboon (!. bubu is supposed by its describer to be quadrumana adored by the Egyptic quently seen among their hierogly probably the simia cynoceph It inhabits northern Africa. The male is a uniform yellowish grobeneath; the face is livid; the is not longer than the upper though raised at its origin, length, reaching below th forming the genus e tall very s

often desolate them as well as the neighboring

w beard, and the furrowed muz-id blue, with a bright red nose h-colored lips; in the young the iot appear, and the tints of the as in the females, are less vivid. is usually called the mandrill, one so well known in London about 20 der the name of "happy Jerry." though gentle to his keepers, was ated by strangers. He was excesgin and water, and apparently so obacco; he obeyed his master's he utmost gravity and composure; ras enormous, equal to that of two ncipal food was vegetables, which cooked, though he was also fond eats. The mandrill recodes much the typical quadrumana, and apcarnivora in its structure, instincts, i; it has been known to tear to vour living prey, with the ferocity it is hardly possible to imagine brute form more repulsive and n the appearance of this species. (C. leucophæus, F. Cuv.), also a natic nearly as figree and powerful as is nearly as fierce and powerful as The color above is greenish brown, rray, beneath white; the face is a black, and the muzzle has no furder lip is red—the females are ze, and of a duller color. Other described, but not with sufficient authority to admit of a general Some species of the genus macagindia and its archipelago, have tly termed baboons; among these oned M. silenus, Geoff.; M. rhesus, emestrinus, Geoff.; and M. niger, e, with others, are intermediate guenos and the baboons, and in resemble the true superchali resemble the true cynocephali. an ancient Greek writer,

tion of Æsopian fables, which he choliambics. He probably lived the Augustan age. Little was works until M. Minas found a py in a convent on Mount Athos, is fables, which he transcribed, at Paris in 1844.

NES (Tegala, babuyan, hog's abode, the Malay language), a name given 'volcanic islants and islate 18 in volcanic islands and islets, 18 in

nost northerly portion of the Philago. The chief of the group is ing an area of 120 sq. m.; the nt is Babuyan, area 65 sq. m. are Camaguin, Dalupuri, Fuga, mapa, Rijutan, Baring; and Coorte and Columnas del Sur, which insignificant islets. The islands maize, pepper, and cacao. Iron pality is found in them; and the a with innumerable wild hogs, no. These islands are among the ve of the Philippines, but are liattened with and violent authoration. it and violent earthquakes, which

often desolate them as well as the neighboring province of Batangas, in Luzon, to which they belong. Pop. not enumerated; probably 7,000. BABYLAS, SAINT, a bishop of Antioch, who died A. D. 251, a martyr to the faith, in the prison at Antioch, under the administration of Decius, who raised the first general persecution of the Christians. Fabianus, the Roman bishop, or the same persecution. Babyles suffered under the same persecution. Babylas succeeded Zebinas in the ecclesiastical adminis-Babylas tration at Antioch, and his episcopate was contemporary with that of Demetrius in Alexandria. Babylas, with other bishops of the church in that reign, held their offices with Christian courage, although they knew it was at the peril of life. Babylas had taken a bold stand against Philip, and refused him the graces

of the church, because he had come to the throne by murder. St. Chrysostom has written a eulogy on Babylas. Fabius succeeded him. BABYLON, the capital city of Babylonia, an empire celebrated in Oriental history. It was stituted as the river Furbrates have 200 miles situated on the river Euphrates about 300 miles from its junction with the Tigris, and near the modern city Hillah, which was built out of its ruins in 1101. The beginnings of this famed city, this "glory of the kingdoms," are involved in the obscurity of antiquity. The name is generally considered to have been derived from Babel, the name of that great measurement of postdilurian cirilization.

of that great monument of postdiluvian civiliza-tion. The builders of the tower, of course, had already laid the foundation of the city in the construction of those necessary protections for the large population which must have existed as the basis of so vast an undertaking. But whether,

basis of so vast an undertaking. But whether, after the disastrous interruption of their plans, in the confusion of tongues, the city was so far deserted as to be permitted to fall into ruins, history gives us but one clue to determine. The fact that the city derives its name from the tower (if it is a fact), indicates that at least the spot had not been so completely deserted that the memory of the event and its locality had passed out of recollection. It would, moreover, be natural that a place possessing so many local advantages should not be entirely deserted, even after the project of Babel had been thrown up. after the project of Babel had been thrown up. Nimrod is therefore generally set down as the founder of Babylon. Moses seems so to have considered it, for he expressly states that Babel was the beginning of the kingdom of Nimrod.

Babel, then, is not to be regarded as an isolated

Babel, then, is not to be regarded as an isolated and frustrated labor; but, on the other hand, there went steadily on from that time the growth and formation of one of the mightiest kingdoms of antiquity. It nevertheless appears from the Mosaic narrative, that on the divine arrest of the plans of the Babelites, they ceased to build the city, and Nimrod himself went out into Assyria, and founded the city of Nineveh, for so it is the opinion of learned critics, the passage in Gen. x. ii.: "Out of that land went forth Asshur and builded Nineveh," should be read. The city of Babylon was then arrested at least, in its growth, while the tide of population and empire was turned beyond the Tigris. In

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process of time, the tide returned as it came. The building of Babylon was then resumed, and The building of Babylon was then residued, and from that time Babylon comes more completely into the realm of history. The Belus of the Greeks, who is set down as the founder of Babylon, if he is a person at all, is most likely this same Nimrod, who might very appropriately be thus styled, when we regard the ctypology of the range as only a corruption of mology of the name, as only a corruption of Baal or Bel, which in the Chaldean tongue meant a lord or ruler. More probably, howmeant a lord or ruler. More probably, how-ever, this Belus is a myth, and has to do with the religion of the Babelites, rather than with the genealogy of their kings. Babylon, as recommenced and finished, under the Chaldean kings, during a period of 209 years, from 747 B. C. to 538 B. C. may be with some degree of accuracy described, especially with the of recent explorations amid its ruins. Baby Babylon was built on both sides of the river Euphrates, which flowed through it in nearly a north and south line, dividing the city as the diagonal of a square, for the 4 corners of the square en-campment which constituted the city stood very nearly in the 4 cardinal points. This encumpment was 15 miles square, dimensions almost incredible to us, in the consolidation of our modern cities. But much of the city of Babylon was open ground. The wall was thrown lon was open ground. The wall was thrown around it for protection from the incursions of foes, and therefore Quintus Curtius tells us there was as much arable and pasture-land within the walls, as would raise the grain and cattle for a siege. The wall which surrounded the city, together with the ditch at its base, made a height of 350 feet, while its thickness at the base was 87 feet and at the top wide at the base was 87 feet, and at the top wide enough for four-horse chariots to pass each other. Through this wall the city was entered by 100 brazen gates, 25 on each equal side of the square, and at equal distances from each other. Between the gates and on the walls were towers for the defence of the wall and city, 3 towers between every 2 gates, the some writers make but 250 towers in all. though walls were made of brick and bitumen—a ne-cessity which the region itself imposed. Intercessity which the region itself imposed. Internally, the city was cut into smaller squares, by streets running completely across the encampment from each gate, making in all 676 squares, having an area of about 28,000 sq. rods each. The banks of the river, in its entire course through the city, were fortified by a wall, and towers similar to those just described. Fronting the various streets were also gates through this wall. The only building worthy of finding a record here is the palace of Nebuchadnezzar, built by that monarch (who figures so extenbuilt by that monarch (who figures so extensively in the Biblical history of Babylon) about 600. B. C. This palace was 6 miles in circumference, and was situated in the eastern division of the city. It was surrounded by 8 walls.

Three brazen gates gave entrance to it from
the city, made of the b wh had been the city, made of the b pillaged from Jerusalem, as tues and vessels of silver

Its hanging gard it was adorned. reckoned, even by the Greeka mon wonders of the world. These were on by the king for the gratification of An queen, who longed for the mountain a her native Echatana, a somewhat del quisition, even for queens, in the low i try where Babylon was situated. To: desire, a large artificial mountain was structed, 400 feet high, and terraced on at certain distances, which terraces we and sustained on sets of piers, so formi of vaulting, and rising in succession at other, the whole being bound togel wall of 22 feet in thickness. up by machinery from the Euphrates irrigate the soil. Here grow the tall so that seen from a distance, it seen natural forest crowning the precipi mountain. This palace, and the temp are the principal features which claim day when Nebuchadnezzar walked in his surveying the grandeur of his possession. It is not this great Babylon that I have the might of my power, and for the my majesty? "But Babylon was not long to their my majesty." long to retain the splendor to which it reached. Some conception of the sine Babylon may be attained from the ad ed by Herodotus, that Cyrus having in the night, it was not until 3 has sunrise that the inhabitants of quarter from the palace, knew that they were a Medo-Persian satrapy. A gleam of lighted up the impending gloom of his a moment, when Alexander made it is a moment, when Alexander made & wo of his vast empire; but the founding of shut out the last prospect of a restorate former grandeur, and Babylon has ed in glory and influence, until show her state in splendor and luxury, "the of the Chaldees' excellency," "the kingdoms," now "sits as a widow on the her desoluted babitations." desolated habitations troddes the foot of antiquarian adventure, massive columns that adorned be, walls that protected her, are at the habitations and attempts cities (Seleucia, Ctesiphon, Koofa) in as many kingda day of her pride were The ruins of ancient Babyl Babylon in the vicinity of Hillah the banks of the Euphras outh of Bagdad. The wh known from the most anci Babel, & c. the Land of Bal from the bituminous fountain Seleucia th Pietro de la the first traveller

a two occasions, 1811 and 1815. The sist of a succession of mounds. Amran yards in length, 800 in its greatest and 50 or 60 feet above the level of

The greatest mound of all is that the natives Kasr. It consists of walls brick, laid in lime-mortar; inside I fragments of alabaster vessels, fine are, marble, and great quantities of I tiles, the glazing and coloring of stolerably well preserved. Here, also, e palace with walls 8 feet thick. A ge mound is called by the Arabs Mujeverturned. Near its summit is a low posed of unburnt bricks mixed up with straw or reeds, and cemented with tar, having between each layer of layer of reeds. Scattered throughout e are fragments of pottery brick, bitu-bles, vitrified brick or scoria, and even ts of glass, and mother-of-pearl. The ticks bear inscriptions. Rich found a the progress of his excavations. It mod, and contained a skeleton in good Under the head of the coffin md pebble; attached to the coffin on the ma pebble; attached to the comm on the mass a brass bird, and inside an ornament me material, which had probably been d to some part of the skeleton. Other were afterward found. On the bank of the Euphrates is a mound, the peasants Anana. Six miles south-Hillah is the mass called by the Araba aroud, and by the Jews Nebuchadnezson. Since Rich, Layard has visited (1849–1851), but he found they gave worth the trouble, and were far infeliment. He deciphered the name and Nebuchadnezzar, king of the Chaldees, e ruins. Many coffins and skeletons sovered by him. No relic or ornares buried with the bodies. Layard have were not purely Babylonian cofbelonged to the era of the Seleucida, or madrian period. It was his opinion rious workers had not gone down deep and that the upper strata of ruins be-to an ancient fort erected over the Babylon by the Seleucid kings. by opened tunnels at the foot of the No sculptured stone or painted plaster overed. The only object of interest Kasr was a fragment of two sculptured th an inscription beneath. Amran five bowls of carthenware out, covered on the inner surface are written in a kind of ink. The are in form like the Hebrew, and in by resemble the Sabwan and Syriac. the British museum, was the first to these inscriptions. The subjects are these inscriptions. The subjects are r charms against evil spirits, diseases, y kind of misfortune; one of them is sement from the devil and other evil The writers were Jews, probably descendants of those carried captive by Nebuchadnezzar into Babylon; and they must have been written prior to any known existing manuscripts of the ancient Hebrew or Chaldean, as there are no divisions between the words, nor any vowel points. As to the identification of the rains, the principal question is whether Birs Nimroud is the ancient tower of Belus, or whether Mujelibé is. Pietro della Valle, Rich, and Layard, maintain that Birs Nimroud is the tower of Belus; Maj. Rennell and Capt. Mignan support the claims of Mujelibé. Rich and Layard say that this latter is the palace and the hanging gardens. The authorities on the ruins of Babylon are: Rich's "First and Second Memoirs on the Ruins of Babylon," 1815 and 1818; Maj. Rennell, "On the Topography of Ancient Babylon in Archwologia," vol. xviii.; Sir R. K. Porter's "Travels;" "Remains of Babylon," in Edinburgh Review, vol. xlviii; Mignan's "Travels in Chaldea;" Buckingham's "Travels in Mesopotamia;" Ainsworth's "Researches in Babylonia;" Keppell's "Personal Narrative;" Dr. Traill "On Ruins of Babylon," in Edinburgh Philological Journal, vol. xix.; "Nineveh and Persepolis," by Vaux; last, but not least, Layard's "Nineveh and Babylon," London, 1853.

BABYLONIA. The empire of Babylonia has been almost as variable in extent, as in fortune

BABYLONIA. The empire of Babylonia has been almost as variable in extent, as in fortune and influence. Originally, and perhaps generally, we may consider Babylonia to comprise that extent of low land stretching between the Euphrates on the west and the Tigris on the east, and bounded on the north by a line drawn from one of these rivers to the other, where they approach nearest to each other, about 50 miles north of the ancient city of that name, and near the present city of Bagdad, and on the south by the Persian gulf. With the variation of sometimes extending to the east of the Tigris, or to the west of the Euphrates, Babylonia embraced pretty nearly what is now known as the province of Bagdad. North of it lay Mesopotamia and Armenia, to the east the kingdom of Assyria, and on the west were spread the arid deserts of Arabia. Its earlier name was "the plains of Shinar" (Genesis x. 10); and later, when the Chaldeans had obtained the ascendency in the state, it was called Chaldea, until it was absorbed into Assyria. Isaiah denominates it "the plain of the sea," probably from the fact that being a lowland, it was annually inundated before the dikes of Semiramis were built to shut off the waters of the Euphrates. This overflowing constituted the riches of Babylon, and the Euphrates has been called "the Nile of Babylon." The soil through which both the Tigris and the Euphrates pass before reaching the kingdom of Babylonia, is of a friable nature, and hence the waters of those rivers come laden with a deposit which they annually spread over the entire area of the kingdom, of so rich a character that the farmer counted upon an increase of from 200 to 300 fold, as the yearly reward of his toil. In productions, both for

xport and consumption, Babylonia abounded The palm furnished her with fruit, wine, and sugar, while the panicum and sesamum yielded her grain-and her pastures were so fat that the cattle must be taken away from time to time, lest they should be too much fed. She had, however, neither vine nor olive among her vegetable pro-ductions, nor timber, stone, or marble, for buildter deficiency in the geological structure of her soil—the clay of the superficial stratum being readily baked even by the sun into bricks sufficiently hard for the usual purposes of architectural while her wells of petroleum, on the banks ture—while her wells of petroleum, on the banks of the Euphrates, not far above the ancient city, supplied mortar for the masonry. It was out of these materials, according to Moses, that the ancient tower of Babel was built, as well as the more modern tower of Belus, the palace of Nebuchadnezzar, the walls of the city, and indeed every thing that was built in or around it. For the protection of the northern frontier, a line of wall of similar material had been thrown across from the Euphrates to the Tigris, called the Median wall. Thus hemmed in, the king-dom of Babylonia, consisting of 82,000 square miles of fat brown soil, destitute of mountains, its plains covered with the alluvium of centuries, was cut in every direction with canals for con veying the waters of the Euphrates (which oftener and more abundantly than the Tigris overflowed its banks) to the soil which demanded enriching and irrigation. These canals These canals reading their complicated network throughout the entire extent of that vast valley, have become classic, with their willow-fringed banks, in Biblical literature, as "the rivers of Babylon," where the captive Jews with silent harps, sat and wept over the desolations of Zion. geographical situation of Babylonia was favorable for the commerce which its soil and resources demanded. The Tigris and the Euphrates connected it on the north with Asia Minor, and on the south with India and Arabia, while the eastern banks of the Tigris put it in commercial relations with Persia. And such was the commercial importance of the city of Babylon in the days of Ezekiel, that that prophet calls it "the city of m hants." The "goodly calls it "the city of m hants." Babylonish garment" v d tions of Achan, at Ai of Babylon, as well as a stone, were fame was the great comm eastern and western we of the empire, next to Babys Erec, Accad, and Calno.—Hav Erec, Accad, and Calno.—Hava inu a view of the extent, internal geographical relations of Babylon here to speak briefly of its history. Acc to the Bible account, Babylonia was the postdiluvian kingdom. Nimrod, acc Moses (Belus, in the Greek historians, Burio, Burio, M. Barris, B. Barri founder. But in the dispersion which the confusion of tongues, Nimrod, if we the translation above suggested of Ge

went beyond the Tigris, and built the Ninevels, out of which grew the Ampire. Babylon, thus deserted, takes a the national scale, for several centuri next we hear of it is about 747 R. Nabonassar appears to have been the Babylon (according to Berosus, pre-some relation of vassalage to Δsyria. evidence that Babylon had not lost sight of in the migration of the dia Nimrod to Nineveh, and it is quite d Is, xxiii. 13, that it had recently been as an Assyrian province, where he re under the name of "land of the Che This circumstance also aids us in de the chronological and political relation Chaldeans to Babylonia, a point which much perplexity to Biblical scholar, polassar is known to be a Chaldean fact that from his time the Balylon are specially designated as Challes, a Assyrian, In him the Chaldeans of an independency of their Assyrian is ruled Babylonia alone. Hence it is that before the time of Nabogolassat, t dean power had been slowly incre Babylon. From the fact that the similar Nabonassar and Nabopolassar, are gi same historian (Berosus), and the later to have been a Chaldean, we may a presume that the first was also of the tion. This will accord with the data Isaiah, already quoted, made with re Shalmaneser upon Samaria, in which that the people of the Chaldeans "we the Assyrian founded it for them to the wilderness; they set up the town. they raised up the palaces thereof. refers to the renovation of the de Babylon, for a nomadic people, wl first established as Assyrian subj We may, therefore, conclude t thor nasty of Chaldean kings, strictly commence until the reign lassar, who made war upon Assyr and destroyed Nineveh and gave I Babylon, nevertheless began its in velopment in the elevation of mad Chaldee, as the Assyrian This will also agree with th of No ming the orig from the mos Babylonia, the graday, and to have well understand that in the days were image-we niane, while orig fire like the Pe

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of S S and

period of its appearance so nearly synchronizes ith that of the establishment of the Chaldean that of the establianment of the case of t me them to have been summer to the first a religious caste, and religious castes always commutate and centralize civil power to them-elves. From Nabonassar to Nabopolassar then, during a period of 130 years, we may consider the Chaldean dynasty slowly accumulating its power in the religious tyranny of a race of priest-viceroys, until under this latter satrap it and sufficiently matured not only to throw off the Assyrian voke, but even to absorb therethe very name of Assyria into Chaldea, or Babylon. But that even this final separation d absorption was not like the sudden revoluions of modern empires, but gave premonitory the policy of Sennacherib, king of Assyria, the Chaldean priest-viceroy was gratified by the appointment of his son, Esarhaddon, as the satrap of Babylon. Esarhaddon made a te sarrap of Babylon. Esarhaddon made a sarrap of Babylon. Esarbaddon made a sarrap of Babylon made a sarra to his father's dominitation that his reign was followed by the cration of the Chaldean line, which, in the of Nabopolassar, as already recorded, itself independent of Assyria, and in alcount of the Chaldean line, which, in the control of Nabopolassar, as already recorded, itself independent of Assyria, and in alcount of Assyria, and in alcount of the control of Media, made war upon the provided of County of Assyria. eson of tonquered its rulers—and from that time his invasion of Cyrus, the history of Assyria Babylonia are one, and are so written in satticle. From this time Babylon is to be saided as assuming its originally contemted attitude, as capital of the eastern world, will all the said of the castern world, and apply to the hile Nineveh sinks slowly and surely to the seition from which Babylon had just risen. In e reign of Nebuchadnezzar, the son and succes of Nabopolassar, the city of Babylon was re-nilt, and adorned. Then was constructed that oral palace already described (see Babylon), and the new temple of Belus, on the ruins of the ncient Babel; and the remains of which are now pointed out in the vicinity of Birs Nimroud, in modern explorations. To this period are also to be assigned the hanging gardens, for which Babylon was so celebrated. Under Nebuchadzzar, the empire of Babylon extended over all the country between Persia on the east and Egypt on the west. By this king the Jews were led into Babylon in the 70 years' captivity, and the sacred vessels and ornaments of the temple, treasures of Jerusalem consumed and spplied in the magnificent structures of the Chaldean capital. It was Nebuchadnezzar who besieged and destroyed Tyre, who devastated Egypt, and made himself master of the whole country from Migdol to Syene, and threaded the whole of ancient Babylonia between the Tigris and Euphrates with those fertilizing canals that bore on their bosom to every acre of the soil the wealth of the husbandman and e strength of the empire. From this monarch the sceptre of Babylon descended to his son

Evilmerodach, and from him to Belsham (mighty prince of Bel), whose reign was disastrously cut off by the invasion of Cyrua, and the destruction of the city (588 B. C.). Thus of Babylonia, which thenceforward becomes a province of the Medo-Persian empire, under which its succeeding fates will be traced. At present Babylonia is a pashalik of Turkey, and has truly "become a desolution emong nations" has truly "become a desolation among nations." From the luxury and licentiousness of Baby-lon in her palmy days, and the complete de-struction into which she had already fallen in the days of John, the writer of the Apocalypse, her desolate condition is figuratively applied to the speedy downfall of some religious system or tenets, prophetically foretold by him in the Apocalypse. The same term is opprobriously applied in sectarian controversies by Catholics and Protestants reciprocally, until Babylon is in our own language nearly synonymous with "all abominations."

BABYLONISH CAPTIVITY. In ancient times it was the custom of conquering nations to remove the inhabitants of a conquered to remove the inhabitants of a conquered country into their own cities and towns, or to colonize them in some hitherto unsettled part of their dominions. This custom grew out of civil and geographical conditions. The degree of national intercourse requisite for maintaining a proper ascendency over the subjugated nation could not be maintained if they were allowed to remain in their own land. Local associations were stronger then than now, or, rather, they were more connected with religious feeling than is now the case among Christian nations; and, if conquered nations were left alone, conspiracies would grow up among them, which would end in open, and, in case they were distant from the home government, successful abolition. cessful rebellion. Consequently, deportation was necessary—a process which has come to be designated in our language by the word captioy. Anciently, deported nations were not eated with that cruelty we are in the habit of associating with the captive. The captivi-ties of the Jews, which are more especially to be treated in this article, demand the preceding remarks in order to aid in a proper under-standing of the frequent notices we find in the Scriptures of the consequence to which these people attained in their foreign residences. There are two Babylonish captivities of the Jews, having their beginnings at different times, although their endings were synchronous. understand how a people so united in civil and religious interest should have become so divided as to share a different national fate, we must look a little at their geographical conditions, and their consequent relations to each other, and the surrounding nations. The land other, and the surrounding nations. occupied by the 12 tribes, in their settlement after the exodus from Egypt, is divided into 8 parts, by topographical characters. The river Jordan and the Dead sea separated the land into 2 great parts, the eastern and the western,

ed the banner of some wealthier baron; quires who wished to become and were ring themselves to become knights. ring themselves to become knights. CCARA, a French game of cards which that resembles lansquenet. It offers no cies, and its only interest depends on oney at stake. At the head of a long divided into 2 parts by a line drawn wise, a man called the banker sits with packs of cards in his hand; the playmore properly, the betters, stand. The banker draws cards, putting one betters on the right, another for him-

betters on the right, another for himthe left; and the party wins whose card bring 9 points, or the nearest number ch party having, of course, the privilege ag for supplementary cards to improve

CARAT, a town of France, department rthe, the seat of the principal manufac-flint glass in that country. The manu-g business has been on the increase g business has been on the increase 15, and the annual product of pressed or lass is valued at more than \$300,000. rkmen and their families are lodged in blishment, which directly or indirectly because the nearly one-third of the mployment to nearly one-third of the population of the town, amounting to

CHANALIA, the secret festivities in n honor of Bacchus, which are menafter the 3d century B. C., and were ed first by women exclusively, later and females, with frequent drinksuch in the such licentiousness that, in 186 B. C., norities intervened, and after a careful stion, forbade them under the severest s, as utterly dangerous to the welfare state. There is a "Senatus Consultum," te decree to that effect extant to this But they were, no doubt, continued se-and even became more licentious. Noas initiated over 20 years of age, and men who indulged in these mysteries and name even in a period of so low a cone as that of the Roman emperors.

CHANALIAN SONGS. The first Bac-

an songs were the hymns sung at the mysteries and festivals of Bacchus. I the earliest age, still bearing the iman oriental origin, specimens of which a the Orphic and similar hymns, are d and mystical. When, however, these rites became more public, and gradually I to maddening orgies, the character of use changed also. Then, as Faber ins, the worshippers strove to urge each to excesses of daring licentiousness, finally, the Dionysia had fairly become schanalia, and a goat was publicly of a prize to the one excelling in these their dissoluteness attained its highest Greek art, which stripped from old Greek art, which stripped from old yg its mysticism, and completely re-it in an entirely objective yet singu-sautiful garment, while leaving to the

vulgar or old-fashioned devotees among the people the original Bacchus, formed a new one for itself just as it formed a new Venus and a for itself just as it formed a new Venus and a new Jove. Archilochus, Mimnermus, and The-ognis, were apparently the first Greek poets of note who thus sang of love. These appear to have formed Anacreon (525 B. C.), the great master of Bacchanalian song. "The drinking songs of Anacreon," says C. A. Elton, "have all the gayety of their subject, without any of its grossness. His assumed philosophy, how-ever irrational in itself, gives a dignity to his manner; and there is a pathos in the thought of fleeting life, which perhaps constitutes the of fleeting life, which perhaps constitutes the secret charm of many of these effusions of voluptuousness." No translation can give an idea of the exquisite grace and elegant sincerity of his tributes to the power of wine.—Pindar's "Dithyrambics to Bacchus," now lost, appear to have been gems of wine songs. The "Anacreontic of Bacchylides," and the "Ode of Callistratus," which were sung convivially, are truly exquisite, as is also "A Health," by Meleager, which is much in the rollicking spirit of many modern lays. Greek poetry relating to wine and Bacchus appears to have expired with the colossal effort of Nonnus of Egypt, who, in the 5th century, wrote 48 books of Dionysiaos, in which, singularly enough, we have a return to the old faith which makes Bacchus the great central god.—Among the Latins there can be no doubt that the exquisite lyrics of Catullus were in their day sung over ides of the exquisite grace and elegant sincerity latins there can be no doubt that the Cagana-lyrics of Catullus were in their day sung over wine, but the first and most perfect specimen of a Bacchanalian poem is the "Tavern Dancing Girl." among the minor pieces of Virgil. In it of a Bacchanalian poem is the "Tavern Dancing Girl," among the minor pieces of Virgil. In it two Roman gentlemen, who have been plodding a weary way "through cloudy dust, in sumer's scorching day," meet a beautiful "Syrian girl who haunts the taverns round," and in her company refresh themselves at a first-class drinking place. There is a hearty gusto of dissipation in this poem, not surpassed by any production of the kind. Of all the Romans, Horace was, however, emphatically the Bacchanalian poet, commending drinking in a downright manner previously unknown to the luxuriright manner previously unknown to the luxurious orientalized wine-singers of antiquity. In Ausonius we perceive a flavor of the coming beery Teutonic middle ages, which he perhaps owed to the inspiration of the beautiful German, Bissula.—The middle ages were, however, prolific in wild drinking songs, the most celebrated being that by Walter Mapes, chaplain of Henry II. of England.—Mihi est propositum—written in the 12th century, sung to this day in German universities, and of which the following is a free translation: free translation:

CANTILENA POTATORIA

In a tayern let me die when life's journey endeth,
Be the wine-cup brought to me ere my soul ascendeth,
That the holy choir above, as it o'er me bendeth,
Well may praise the drinker stout whom it to God commendeth.

Brightest souls on earth below have by the goblet thriven, Hearts imbued by nectar strong to realms above are driven; Sweeter tastes my wine to me in a tavern given, Than the bishop's pious tap well with water ahriven.

All my verses have the smack of the liquor by me, But if you would see me write, with a supper try me! Till I'vo had a bite or two I am never rhyme-y, But with half a dozen cups Ovid can't come nigh me! Nature hath to every man proper gifts allotted, Fasting I can never write, nor unless besetted; Hungry, even by a boy I might be garrotted, Ere I'd thirst I'd let me first in a hearse be trotted. In my soul the sparkling fount of prophecy outwelling, Ne'er was felt until with wine my every voin was swell.

In my soul the sparkling fount of prophecy outwelling, Ne'er was felt until with wine my every veln was swelling; But when Bacchus in my brain holds his lordly dwelling, Phæbus rushes into me glorious marvels telling.

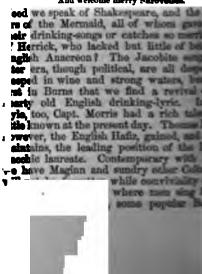
For the credit of Mapes it should be stated that he puts this song into the confession of a beau-ideal of a reprobate. The monk-Latin Bacchanalian songs of the middle ages are innumerable; specimens may be found in the Possics Populaires Latines of Du Meril, Nugas Venales, 1720; in the De Generibus Ebriosorum, in the Facetiae Facetiarum, in the Antidotum Medancholia, and in many other quaint jest-books of rude Latin, in company with mock treatises de jure potandi. One of the most remarkable contributions to wine-poetry during the later age, when every merry scholar wrote something of the sort either in Horatian or Leonine measure is the poom. De Arte Riberdi... On measure, is the poem De Arte Bibendi—"On the Art of Drinking," by Vincentius Obsopœus, a truly elegant, Epicurean production in 8 books.—An account of German Bacchanalian song writers would include the names of all the song writers would include the names of all the poets of that country, since in no part of the world is drinking so much accompanied by singing. Gleim was among the first to imitate Anacreon, while Goethe, Schiller, and Heine, have in bolder flights given us wine songs of striking originality. The Rheinweinlied of Claudius will, however, always remain the most characteristic German lyric of this description. The drinking songs popularly sung most characteristic German lyric of this description. The drinking songs popularly sung in Germany are mostly by Muller, Justinus Kerner, Langbein, Kopisch, Goethe, Schiller, Uhland, Lessing, Schenkendorff, Arndt, Hebel, Heine, Müchler, Ludwig, Körner, Förster, Albert, Novalis, Fink, Schreiber, Gunther, Hölty, Schmid, F. Haug, Rochlitz, Von Schlippenbach, Geibel, Stollberg, Blumauer, Weisse, Fallersleben, Burde, Neumann, Wiss, Hornbostel, Böhm. To these might be added the names of many more recent writers, whose lyrics of many more recent writers, whose lyrics, however, are not so firmly established. Germany can probably boast of 1 and eccentric table-songs ti try.—French Bacchie ly. troubadours and trouve abound like those of the vinous inspiration. The po vinous inspiration of the position with the continuity of the position with the p so that a critic might call them one of the bowl, with the endless refrain of cool and fresh!" Marot, D'Orleans, and Bellay, all left lyric and convivial flash would be impossible to give with any acan idea of the Bacchanalian mi France, so prolific and yet character. The popular so the frequently in old collections

Adam, the joiner, Chaulieu, Lafare, Bord and by the author of Delira Buckique on Panpan Backique. Dufreny, Pannard, Collé may be regarded as the more of restorers of French Bacchie songs, but have been supplanted by Desangiers, and especially by Béranger, the great of modern France.—Modern Italy has been a land eminent in drinking—ong, a Bacchanalian lyrics generally, with the tion of some spirited cunzone populare i dialects, are modelled after the classics (Bucco in Toscano of Redi), or in more days after the French.—The Scandinavia still more, the Slavonic tongues, partia Bohemian and Croatian, have many genia akin to German and English, in wild I Collections of Lithuanian, modern Great Armenian songs, are not without some c ties in this kind.—If we wander to the E find, however, in Persia and in the hy Ferdusi, the modern Mirza Shaffy, as prototype, Hafiz, the very ne plus ultra e songs, those of Hafiz not being inferior respect to those of any poet of any national collections.

My drunkenness is not a fault of mine.
For drunken came I from the hand divine,
Which kneaded up my nascent clay with win
Therefore, when, dry and hand, I facing pur
No moisture suits me like the yeasty wine.

But it may be fairly claimed that, of a guages, the English possessers at least the est variety of these lyrics. In its earlier it abounds with jovial, hearty staves, delit is true, rather to Cambrinus, the saint than to Bacchus, but these are iniminable the world knows the "Jolly good Ale sain of Gammer Gurton's "Needle," and the "ler Bottél," and it surely knows nothing of their kind. Chaucer and Skelton 4 this genial feeling, and it peeps out of a black-letter carol and Christmas lay, the quaint phrase through the Gothic feath imagination recalls, until the helly so wreaths quiver:

Tis merry in hall
When beards wag all;
And welcome merry Shrovelide.



railian songs have been produced, but they can hardly be said to form a distinct or original department in the literature of the country.

BACCHANTES, in early antiquity those women who took part in the nightly and secret festivities in honor of the god of wine; mbsequently, when males were also admitted, the term was applied to all those initiated into the problem of mediaval the Bacchanalia. In the slang of mediæval miversity students, the name was given to the juniors or beginners who had not yet com-pleted their first years' studies, and under imposing rites and plausible pretexts were taxed for drinking purposes, initiated into debaucheries, and abused and maltreated by the seniors. Later the name was applied to e students who never began to study, but continued in debauchery, and in order to avoid working for a subsistence, wandered about begging under the pretence of collecting the means for future studies. They were organized means for future studies. They were organized into bodies with constitutions and rituals, more for amusement than for protection, because this misance was generally tolerated, and their jokes paid for their fare. There were even, in many cities, public boarding houses established for them, and with country ministers and phycians they were great favorites. Sometimes they managed when growing older to become school-teachers or inferior and auxiliary teachers at universities, and it was a recommendation for a high school to have many such scholars. For heavy fees in drink they even gave in-truction in the secret arts of their wandering to younger students who, under the title of Thrones, acted as their servants, and even had to steal and to beg for them, and were cruelly breated. There still exist in German 2 autobiographies of such Bacchantes, Burkard Lingg and Thomas Plater. The reformation stopped this custom; but some traces of it were con-tinued in Germany and England down to the 19th century

BACCHIGLIONE, a river of northern Italy, about 90 miles in length, which rises to the cestward of Trent, and flowing past Vicenza and Padua, empties into the lagoon of Venice below Este. Large boats ascend it to Vicenza.

BACCHINI, BENEDETTO, a Benedictine monk and an eminent scholar, born Aug. 31, 1651, at Ban Donnino, in Parma, died Sept. 1, 1721. In 1649, he was appointed to the office of preacher, and during the next 7 years his eloquence instructed the faithful in various cities of Italy. In 1686, with the assistance of Gaudenzio Roberti, a learned Carmelite monk, he published, at Parma, the first number of the Giornale dei Litterati. But calumnies and misrepresentations against him had such influence with the dake that, in 1691, he deprived him of the colice of state theologian, and ordered him to leave Parma within 3 days. In less than a year, Francis II. of Modena had appointed him his historiographer, and at Modena he resumed the publication of the Giornale dei Litterati. In 1705, he undertook a journey to Rome in order

to obviate, if possible, the opposition of the papal court to his publication of the ecclesiastical history of Agnello, archbishop of Ravenna, in the 9th century, and succeeded. He ultimately became abbot of his monastery, and attained the highest dignities which his order could bestow, in Modena and Ragusa. But he presumed to defend the rights of his community from the encroachments of the crown, which so enraged the duke, that he banished him. He was thus compelled to lead for years the life of a wanderer, and would have died one, had not the university of Bologna taken compassion on his old age, and given him a refuge until his death.

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retuge until his death.

BACCHIUS. I. The name of a tri-syllabic metre, consisting of 1 short and 2 long terms ('--). II. The author of a short musical treatise in Greek, whose place and time of birth are unknown. He wrote an "Introduction to the Art of Music," in the form of a catechism, apparently intended for the use of schools.

BACCHUS. (Gr. Barron of Various of Arthur of Arthur

BACCHUS (Gr. Baxxos, or Laxxos, or Accordos) was, with the ancients, the god of wine, and, in some regions, of song, joy, and theatricals, also, as well as the protector of fruit-trees and of fruit. Scarcely any rites were spread over so large a portion of the ancient world as those of this divinity. It is, therefore, difficult to settle the question where they originated. The religious tradition of the Greeks makes Bacchus the son of Zeus and Semele, the daughter of Cadmus. The jealousy of Hera sought to destroy the mother with her unborn son, and she advised her to persuade Zeus to appear before her in his real form. She perished in consequence, and Zeus, anxious to preserve the stillborn child, inclosed him for 3 months in his thigh, and thus brought him to maturity. He then gave him to Ino, the sister of Semele, and her husband Athamas, to bring up, and when Hera had rendered them crazy, to the nymphs in Thrace. Thus he was reared in Nysa, and, when grown, taught the cultivation of the vine and the preparation of its intoxicating juice, and undertook with the nymphs an expedition to the Orient to spread the cultivation of the grape. He went as far as Egypt and India, where he planted the eastern frontier columns of the world. He made proselytes, not by forcible means and weapons, his followers being armed only with long sticks, called thyrsi, hollow inside, and adorned with colored ribbons, and ivy, and vines; but those opposing him he either made crazy or frightened them into submission by metamorphosing himself into a wild beast. One of his opponents, Pentheus in Thebes, was punished by his mother and her sisters, who became furious and tore him in pieces; the sailors of a vessel, chartered by him for an expedition to Naxos, who fettered him and desired to abduct him to Italy, he punished by causing ivy and vines to surround the vessel and stop its course, when he metamorphosed himself into a lion, and frightened them so that they jumped into

Is uncertain. The lyrics of Bacchylides were many in number, and of almost every variety. The fragments were collected and published by Neue, at Berlin, in 1822. They are also to be bund in Bergk's Poetica Lyrici Graci.

BACCIARELLI, MARCELLINI, a modern Ital-man painter, born at Rome, Feb. 16, 1731, died at Forner. Lyr. 5, 1819, was employed in 1789 by

BACCIARELLI, MARCELLINI, a modern Italwarsaw, Jan. 5, 1818, was employed, in 1753, by King Augustus III. of Poland, as designer of the melorated Dresden gallery of engravings. After smaining for some time at Vienna, where he acreased his reputation by his portraits of the apperial family, and by his "Apollo and the fuses on Mount Parnassus," he was, in 1765, prointed director of the fine arts in Poland, and remained for the rest of his days at Warwe, principally engaged in paintings connected with Polish history and public men. BACCIO DELLA PORTA, called, also, It.

The remained for the rest of his days at Warw, principally engaged in paintings connected
with Polish history and public men.

BACCIO DELLA PORTA, called, also, IL
FRATE, and FRA BARTOLOMMEO, and FRA BARTOLOMMEO DA SAN MARCO, a celebrated Florentime painter, born, in 1469, at the village of
Savignano, near Prato, within a short distance Savignano, near Prato, within a short distance of Florence, died Oct. 8, 1517. He studied under Desimo Rosselli, and subsequently devoted him-If with great enthusiasm to the study of the orks of Leonardo da Vinci, to which he is inbted for his admirable knowledge of chiarosuro. His first works were of small size, such his 2 cabinet pictures in the Florentine galary, representing the "Nativity" and the "Cirmcision." In his fresco of the "Last Judgmt," in the chapel of Santa Maria Nuova, he dopted a grander style. At this time a great ge came upon the artist's mind. He happend to be employed in the convent of St. Marco, rhen Savonarola was arrested and conducted to he stake. He was an admirer and friend of Savonrole, and his execution preyed so much upon is mind that, in 1500, he entered the convent San Marco, with the intention of renouncing be world and his art. But his love of art was be world and his art. But his love of art was co strong, and, to the delight of his friends, he seamed his labors in 1504, and was particularly sappy in the course of the year, as Raphael same to Florence, with whom he became well sequainted—Baccio instructing Raphael in soloring and the folding of draperies, while Raphael, in return, taught him the rules of persective. Subsequently he went to Rome to pective. Subsequently, he went to Rome, to tendy the works of Michel Angelo and Raphael. in the convent where he passed 4 years, are to this most finished frescoes. In the Louvre are two of his pictures, "The Angelia lalutation" and "The Marriage of St. Catharine of Sienna." One of his finest productions, "A # Sienna." One of his finest productions, "A Virgin upon a Throne," is in the public gallery # Florence; also, two prophets, Job and Isaiah. In the Pitti palace is his celebrated single figure Ast. Mark, which is described by Winckelmann

a Grecian statue transformed into a picture. In the Quirinal of Rome are 2 of his pictures, St. Peter and St. Paul. The latter was most admired by Raphael, who sompleted it. In the Doria and Corrini palaces in Rome are 2 holy families of his, and in

the Braschi palace a marriage of St. Catharine. In the museum of Naples is a superb picture of the Assumption. Munich is in possession of a holy family and a madonna of his. Vienna boasts of his "Presentation to the Temple," Berlin of a sublime Assumption, and St. Petersburg of a St. John and a St. Andrew. Some of his most celebrated works were transferred by Napoleon to the Louvre, but afterward restored to Florence. In the private chapel of the fathers of St. Mark, are many of his paintings, and among them a St. Vincenzio, which is somewhat after the style of Titian. His best and rarest performances are in the possession of the ducal family, including his last and one of his best works, a large picture in chiaroscuro, representing the patron saints of the city, surrounding the Virgin. His designs came into possession of Sir Benjamin West, and afterward into that of Sir Thomas Lawrence, at whose death they passed into the hands of London print-dealers, who scattered them over the world. He was the inventor of a new method of casting draperies, and of the use of the wooden figure, with movable joints. The distribution of light and shadow constitute the great study and the great power of his pictures.

BACH, the name of a celebrated musical family in Germany. In no department of science, art, or literature, has any single family

BACH, the name of a celebrated musical family in Germany. In no department of science, art, or literature, has any single family ever achieved such distinction, either from the number of its members who have devoted themselves to the same pursuit, or the talenta, genius, and learning which they have manifested in it, as that of Bach in music. Fifty individuals, at least, of this name, whose lives spread over a period of 2½ centuries, would deservedly occupy an extended space in an exclusively musical cyclopædia. A notice of the family, however, with sketches of several of its more distinguished members, is all that our limits permit. As many of them have borne the same Christian names, we are compelled, in order to convey any clear idea of them, to abandon an alphabetical for a chronological, or rather, genealogical, arrangement.—Vert, the founder of the German family of the name, was originally as baker by trade, a Protestant in religion, at Presburg, in Hungary, whence, about A. D. 1600, he was driven by persecution, with his family, and sought a refuge in one of the small cities of Thuringia. He had received a musical education, and was noted for his skill upon the guitar.—Hans (Johannes), the eldest son of Veit Bach, and the ancestor of most of those of whom mention will be made, was a manufacturer of tapestry and city musician at Wechmar. He died in 1626, leaving 3 sons: Johann, born 1604, died 1673, who was appointed organist and director of the city music at Erfurt, which offices he retained from 1635 until his death; Cherstoph, born 1615, at Weolmar. He was instructed in music by his father until, needing a teacher of greater knowledge, he was sent to his brother Johann at Er-

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furt, where, in a few years, he became a very accomplished organist and musician in the fash-ion of that epoch. He was employed in these spacities successively by the city authorities of capacities successively by the city authorities of Schweinfurt and Erfurt, until he was called, in 1641, to Arnstadt as organist, a place which he filled with great honor for the long period of 51 years, to his death in 1692.—The Bachs of the next, the 4th, generation were 9 in number.—JOHANN ÆGDIUS, the 2d and most noted of the 8 sons of Johann, born 1645, died 1717, upon the death of his father succeeded him as organist and director of the city music at Erfurt.-Симинтори, eldest son of Christoph, born 1642, died 1697, was cantor and composer at Schweinfurt.—Johann Ambrosius, born 1645, died 1695, brother of the preceding, a sound theorist, and of repute in practical music, the father of the great Johann Sebastian, was a court and city muborn 1645, died sician at Eisenach.—Johann Christoph, eldest of the 8 sons of Heinrich, born 1643, died 1703, stands in musical history as one of the very first of German organists, contrapuntists, and com-posers of his era. He studied music with his father so successfully as at the age of 22 to be called to Eisenach into the service of the court and city, as organist. At the time in which he lived but little music comparatively appeared from the press, and the works of one who lived the retired life of an organist in a small Saxon city could scarcely become known out of his His compositions, of own immediate sphere. which he left a vast number in manuscript, composed for the church and court where he officiated, prove, says Gerber, "that he was officiated, prove, says Gerber, "that he was truly a great man, as rich in invention as he was strong in the power of musical expression of emotion." A century after his death, at the time when Mozart, Haydn, and Gluck had be come models in composition, selections from his works were performed in Hamburg, with great success, exciting no small degree of astonishment by their freshness, beauty, and freedom from the trammels of the dry contrapuntal school. So far as the musical taste of his age allowed, his works in general are found to be melodious and truly vocal, at the same time being remarkably full in harmony and very grand in effect. One of his compositie dat Ĭ68**4** in free style, in which, novelties of construction the extreme sharp 6th. sheet upon which it is w of sacred music in 22 parts. ic relations of which to t The list of his works con St. Michael's day in 22 read wedding music in 12 parts, another voices, instrumented for 2 choirs tras, a solo for an alto voice with seement for violin, 3 viol di gambas, and l
—JOHANN MICHAEL, brother of the pre
2d son of Heinrich, was born at Ar 1660, and making music his organist and city scribe in one towns. He was an indu-

composer for the church, harpsicherd, a gan. One of his vocal works, perfor Berlin recently, surprised every andican beauty and modern coloring. His danger came the first wife of Johann Sebe —The family tree gives 17 Bachs of the the 5th generation, of whom the most guished were the following:—JOHANN Bu eldest son of J. Ægidius, born Nov. 22 died June 1, 1749, was organist of the chants' church of his native city. Execute chants church of his matter tray, and, in 1703, we of Johann Christoph, as court and city at the former place. He distinguished he cspecially in his choral preludes, and a overtures in Telemann's style.—JOHART rian, in some respects the greatest m that has lived, was the 8d and youngest J. Ambrosius, born at Eisenach, March II J. Ambrosita, born at Eisenach, staren it 1 month after the birth of Handel, at died at Leipsic, July 28, 1750. At a very age he lost his mother, and had had pleted his 10th year when his father at The little orphan was then placed uni-care of his brother J. Christoph, at Of with whom he continued his musical and began the practice of keyed in the harpsichord and organ. The le soon ceased to interest hi brother begged the use of a manuscript in C begged the use of a manuscript in Car possession, containing compositions for a sichord by Frohberger, Kerl, and Pa the most noted organists of that day, was refused him. The door of the case is was retused in the total the book was kept was of lattice-work, which little Bach's hand would pass at was not bound, he was able to real a draw it out. On bright moonlight at rould take it to his room and copy f thus, in the course of 6 months, he hown hand. It was hardly finishes when his brother accidentally discourse. took it away. The act seems harsh, less the teacher knew best how to studies of so young a pupil. The bo in Ohrdruff was short, being ended be death of Christoph. In Europe—in The boy well as upon the continent well as upon the continent-lays of Bach—there is a re in the choirs of cathedrals, a nd richly endowed churche and German musical histor of many a celebrated comp-was a chorister. Bach four inger in such a choir at 1 niles from Hardward. -in o niles from Hamburg olce changed, with the he receipt of a small is boyish necessities, rgan and his zeal for tyles, at this period, is foot-journeys to

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ace and the necessity of entering upon a new field. Lake Handel, he had studied the violin the success, as his remarkable compositions that instrument prove—and it was now his At the age of 18, therefore, he jour-need to Weimar, and entered the service of the court there as violinist. His leisure hours there as violinist. His leisure hours and to the organ, to counterpoint, and in less than 2 years, and hardly 20 years of age, he was called to fill the place of organist, probably the church where his father's uncle Heinrich to long officiated. The 3 years spent in Arnaver years of most devoted study, and durable that into he daysloved those nowers which that time he developed those powers which award placed him above all rivalry. Beside labor which he devoted to the working out his own conceptions, he let nothing escape his own conceptions, he let nothing escape his own conceptions have been so Bruhns, and Buxtehude. He was so charmed with the works of the last named that he went to Luto hear him play, and prolonged his visit a stay of 3 months, merely to listen to him the church, for his acquaintance he did not In 1707 he accepted a call to Mühlhauthe capacity of court organist. Encouraged
the continued applause of the court he
marked himself to the utmost, and his principal compositions for the organ date during the 7 rears of his service there. In 1714 he gave up his position as organist and accepted the place concert-master to the duke, with the additional duty of composing and conducting the vocal music of the ducal chapel. Here, doubtless, because the place of the ducal chapel. nusic of the ducal chapel. Here, doubtless, began the enormous list of works in every form
of sacred music, which, mostly in manuscript,
see preserved in the musical libraries of Berlin,
Leipsic, and other cities. Here, too, he had
constant practice in writing orchestral works
and instrumental chamber music, and fitted
himself for a larger stage of action. In 1717
Marchand, then at the head of French organists, Marchand, then at the head of French of sppeared in Dresden, and charmed Augustus so greatly by his skill as to receive an offer of a enter his service. Voluwery large salary to enter his service. Volu-mier, also a Frenchman, the concert-master of the king—whether jealous for the honor of his own nation or that in which he had cast his lot mnot now be determined--invited Bach to the cannot now be determined—invited Bach to the capital to a trial of skill with Marchand. The Saxon accepted the invitation, and through the kindness of Volumier had an opportunity of hearing his rival. With the knowledge and consent of Augustus, Bach sent his challenge to the Faranch artist which was accepted. the French artist, which was accepted. At the time fixed, Bach appeared at the house of the minister where the contest was to take place.
The king and company waited long, but Marchand came not. At length came news that he had left the city early that day by extra post. The greatness of the German organist, however, more than made good the loss. Bach returned to Weimar, but soon after accepted the office of Kapellmeister to the court at Köthen, where he remained, composing for and directing the or-

chestra, until 1728, when the city authorities of Leipsic elected him to the position of musical director and cantor of the Thomas school. During the 6 years at Köthen he had not neglected his favorite instrument. Obtaining leave of abstances in the control of the product of the control of sence, he again visited Hamburg to see the aged Reinke, who had now nearly completed his century. While there, he gave a performance upon the organ of the Catharine church in presence of the city magistrates and the princi-pal citizens, extemporizing for more than 2 hours in such a manner, that the aged Reinke, who had listened with delighted attention, exclaimed at the close, "I thought this art had completely died out; but I see it still lives in you." At the age of 38 then, Bach, rich in all that study of theory, hearing the best models of his age and country, practice as member and leader of orchestras, and constant exercise in composition for church and concert-room, could give him, entered upon the calm quiet life of give him, entered upon the calm, quiet life of succeeding years, and devoted himself to teaching and to the working out of his lofty conceptions of the musical art. Twenty-seven years he thus lived and labored surrounded by his pupils and his large family of sons, composing music sacred and secular in all the forms then known, except the opera and dramatic oratorio, and leaving as the fruits of those years a mass of compositions, which for number, variety, and excellence, form perhaps the most astonishing monument of musical genius and learning.

Mozart and Handel alone can at all come in Mozart and Handel alone can at all come in competition with him in this regard. Of the works from his pen, which appeared in his few works from his pen, which appeared in his lifetime, most are said to have been engraved upon copper by himself with the assistance of his son Friedemann, and this labor, added to his others so numerous, finally cost him his sight. A few years later, at the age of 65, an attack of apoplexy carried him to the tomb. He was twice married, and of the fruits of those marriages he left 10 sons, all of them fine musicians; several of them among the very first of that great period in the history of the art of which that great period in the history of the art of which Mozart, Haydn, and Gluck, were the chief ornaments. This great musician had no cause to complain of a want of due appreciation, either as organist or composer. Very soon after his establishment in Leipsic, the duke of Weissenfels conferred the title of Kapellmeister, with the emoluments of the office, without requiring his personal attendance at court, and, in 1736, Augustus of Saxony created him "Royal Polish and Saxon electoral court composer." In 1747 he was persuaded to accept an invitation from Frederic II., king of Prussia, to visit Berlin and Potsdam. Notice was given to the king of his arrival in the latter city, just as a private concert in the palace was to begin. "Gentlemen," said Frederic, "old Bach has come!" The old organist was instantly sent for, and without affording him time to change his dress, he was brought to the palace. The king had several of Silbermann's pianofortes in various apartments—one may still be seen

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and to these in succession Bach was taken and called upon to try their powers. At length the king gave him a theme for a fugue, which was so coined out as to afford coined out as to afford fugue, which was so coined out as to afford him the highest gratification, and he imme-diately afterward demanded an extemporaneous fugue in 6 parts. Bach thought a moment, and selecting the theme, worked it up to the astonishment not only of the king but of the everal distinguished musicians preent. his return to Leipsic he wrote out the fugue, added to it another in 3 parts, and a ricercar, also, in 6, both upon the same theme, together with other specimens of his powers, and published them with the title of "A Musical". The only works by Real published with other specimens of his powers, and published them with the title of "A Musical Offering." The only works by Bach, published during his life, are exercises for the harpst-chord, in 3 parts, which appeared at intervals; an air with 30 variations; 6 choral preludes in 3 parts for the organ; variations in canon upon the choral Vom Himmel hoch, and the "Musical Offering." The rest of his works left in manu-Offering." The rest of his works left in manuscript have come out one by one, or still remain unprinted. The 6th volume, in folio, of his complete works, has just appeared at Leip-sic, edited by the Bach society. Our limits forbid any attempt to give a catalogue of these works—they amount to many hundreds in mber. Among them are found 5 complete number. Among them are found 5 complete sets of vocal pieces for the church for all the Sundays and festivals of the year; a great collection of oratorios, masses, magnificats, sanctus, pieces for birth, wedding, and funeral occasions, and not a few comic compositions; 5 " passions," so called, compositions to which the accounts of the suffering and death of Christ, as given by the evangelists, furnish the text; more than a hundred sacred cantates are preserved in the library of the Thomas school alone. more than a hundred sacred cantatas are preserved in the library of the Thomas school alone. "The Well-tempered Clavier," a collection of 48 preludes and 48 fugues, is known to every earnest student of the pianoforte, as remarkable in its adaptation to the purpose of enabling the performer to conquer the difficulties of that instrument. His works for organ, harpsichord, orchestra, and every solo instrument in use a century since are as numerous and effective as century since, are as numerous and effective as his vocal compositions, and begin again to form a part of the programmes in the principal concerts of central Europe. As a virtuoso upon keyed instruments, Bach seems to have anticipated the wonderful effects produced in our own days by Thalberg, and even Liszt. In his own age he was in this regard—as has been said of Shakespeare as a poet—so far above all others as to have no second. The fingering invented by Bach was the basis of his son Emanuel's work upon the planoforte, which entury since, are as numerous and effective as invented by Bach was the basis of his son Emanuel's work upon the planoforte, which opened a new era for the instrument, and led, through Mozart and Clementi, the way to the extraordinary perfection exhibited by the virtuoses of our own time. To it he was compelled by his own works, for, as he himself said, "he had often been compelled to study long at night how to play the compositions which he had written during the day." Perhaps the

most striking points in Bach's coupe the marvellous invention they exhibit extraordinary grandeur, power, as Mozart, when, near the close of life, i Mozart, when, near the ele Leipsic, after having exha of nucical learning of Rome, Mi and Paris, heard the Thomas sche a motet of Bach. His attention v "Ah," he exclaimed, "here is that one may still learn something!" E occupy some such ground in art as works of our noble old English proper literature; they require study to be a hended and felt in their greatness. In there the forms of expre antiquated; at first much seems of afterward stands out prominent for b study is rewarded finally by leading perseveres to treasures of origin -Of the M and there only to be found.—Of the tration of the Bach family, some 30 is JOHANN ERNET, born at Eisensch, Just died 1781, was educated at the Thoma university at Leipsic; made just his profession, and settled as an adventative city. But he was a Bach, to early drew him from the law. At the more distinguished e was made assistant-orga and finally appointed kapellmeist at Weimar. Life at court prove to him, and upon the death of t turned to Eisenach and to his fi was an industrious and su for the church, and while at We a great number of orchestral of his compositions were print FRIEDEMANN, eldest son of Joh born at Weimar in 1710, died d born at Weimar in 1710, died J Berlin. Of all the Bachs born a this man seemed by nature the la succeed to the high position whi held in the art. His genies was e order, and the progress which childhood under his father's inst-rise to the brightest hopes for the his early and extraordinary muste his early and extraordinary in-practice and theory of music, more nearly rivalled Mozart, His compositions were rema-power and depth, and by his harpsichord and organ in repr any musical idea which cocu-aroused the wonder of all who studied the violin with th afterward concert-master Prussia, with equal success regular courses of instruc-school, and then entered Leipsic, where he devoted dence and mathematics. dence and mathematics.

he specially inclined, and re
for it throughout life. M

not neglected, and in his 23to Dresden as organist in to Dresden as organist He remained there up

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music-director and organist, d about 20 years, and hence a musical works "the Halle re of 57 he gave up his place, Leipsic, with nothing certain erty. During the remaining a, without a fixed position, he bond, teaching and practising ick, Gottingen, and Berlin, le condition at the age of 74. ognized by all his contempost musical genius then living od between Handel and the hat in which Mozart reached—the greatest organist, the nist, the most learned musi-Unfortunately he was also

Unfortunately he was also le temper, rude in his man-1; possessed of a professional ered him intolerable to other inded in the highest degree worse than all, a drunkard. residence in Halle, he was a f trouble at the church, of anist. He often forgot to atanist. He often rorgon in. When on his way thither, es forget his errand and wonwere ringing; sometimes he hurch at one door, forget him-at the other. He often gave the keys of the instrument is forgetfulness, some one else On one occasion, in his duty, he went very early to rhile awaiting the congregalf in the women's seat, where s usual in a reverie, the organ The congregation had assemime for the voluntary; people , looked up at the organ loft, ads. Bach did the same, and to some person near him, who is to play the organ tos he would forget himself. rument, and play on until the and people was alike exhaustice of a severe reproof upon the now old man gathered up sions and went off to Leipsic. irneys, at a later date, which with a bundle under his arm, r of musical Prague students, isited a chateau in the neighwick. The servants told them ir best as there was a great house upon a visit. When house upon a visit. When e, he extemporized upon a for a long time in his best ended, a voice rang through s my brother Friedemann, or speaker was Emanuel Bach. threw themselves into each Friedemann shed tears of joy, recognized him from his play nper, however, soon caused a hem, and they were strangers

The works of Friedemann Bach henceforth. are few in number, but these few are such as to cause every musician to deplore the sad waste of genius and talent which his life exhibits.—Carl Philipp Emanuel, born at Weimar, March 14, 1714, was the 8d son of Johann Sebastian. In his childhood he was thoroughly grounded in music practical and theoretical Sebastian. In his childhood he was thoroughly grounded in music, practical and theoretical, afterward following his brother Friedemann to the Thomas school and university in Leipsic. Like him, too, he studied jurisprudence there, and pursued the science further in Frankfort on the Oder. In this city he founded and directed a musical society, which often sang composi-tions from his pen. At the age of 24, he retions from his pen. At the age of 24, he re-moved to Berlin, where he lived privately until 1740, when he was appointed chamber musi-cian and accompanist to Frederic II. in that monarch's flute solos. In 1767, he accepted a call to Hamburg as music director, where he died of consumption, Sept. 14, 1788. He was one of the most prolific composers of his time, and his works were popular to such a degree. and his works were popular to such a degree, that the list of those published during his life, surpasses in extent that of any German composer, until the appearance of Joseph Haydn. poser, until the appearance of Joseph mayon. He was equally great in all departments of composition, except the lyric drama, in which he had no call to exert his powers. The choruses of his oratorio "Israel in the wilderness," and of his oratorio "Israel in the whiterness, and of some of his more extended works for the church, place him nearer Handel, perhaps, in their power, beauty, and ravishing vocal effects, than any other composer. As a writer of songs, than any other composer. As a writer of songs, odes, and psalms, he surpassed all his contemporaries, and some of his collections reached their 4th and 5th editions soon after their publication. As a symphonist and writer of chamber music, he held the first rank, both for their beauty and the extraordinary invention they exhibited. Like the works of Mozart and Boethoven, at a later period, his were censured as being full of strange modulations, crudities, and difficulties; but they made their way in spite of the critics, and became the foundation spite of the critics, and became the foundation upon which Haydn erected his temple. While restrained within due limits by the example and instructions of his father, he nevertheless made music the medium of expression for the varying emotions of his naturally poetic spirit, and thoughts sublime, pathetic, and humorous, are often combined in a manner then utterly new often combined in a manner then utterly new and surprising. Haydn was a most diligent student of his works, and declared in his old sage, when he stood in the musical world with no rival but Mozart, "For what I know, I have to thank Carl Philipp Emanuel Bach." Clementi has the reputation of being the father of modern pianoforte playing. That great man, of modern pianoforte playing. That great man, however, acknowledged in Bach his master. He became what he was through his study of Emanuel's works, and to him we owe the publication of many of them. The works of Bach for this instrument, trios, sonatinas, with accompaniment, concertos with orchestra, and sonatas, are numbered by hundreds, of which

he participated in all the action nment. When Count Stadion was withdraw, Bach became minister ior, July 28, 1849, which office he

I, or, according to Dutch orthogan, is the largest of the 5 original e parent country of the clove; area and pop. in 1841, 1,100, or less than e mile. Its eastern extremity is in long. 127° 54′ E. It is altogether of nation. Since the extirpation of the the Moluccas by the Dutch, in order he culture within the Banda group, as ceased to be of any consequence. a considerable population, supposed not less than 20,000, when its king the followers of Magellan, and sent birds of paradise to the king of te recently fossil coal of excellent seen found in the island, in considities, which will be likely to give it portance than it ever possessed in its of spice culture and export. Fuller vill more properly come under the voca.

AOH, a fortified town of Rhenish he Rhine. Wines of superior qualuced in its vicinity. At this place end the Rhine on Jan. 1, 1814.

MONT, FRANÇOIS LE COIGNEUX DE, t and literary man, born at Paris in 1702. He was a judge in the paran the disturbances of La Fronde

an the disturbances of La Fronde
He sided, of course, with the opMazarin, and is said to have, by a
sted the name given to his own
playfully remarked that their mare much like those of boys, who
e of the police prohibition, to sling
e ramparts of Paris; and the comied so happy that all the anti-Mazapleased to be called frondeurs
Bachaumont, moreover, being an
of verse, composed many epigrams
I songs against the cardinal, some
re very popular. On the restoraquillity he sold out his office, and
pent his life convivially with Chatriend of Molière. With this most
mpanion he undertook a journey to
in account of which they wrote in
with rhymes. This Voltaire once
be a model of wit, though now it is
rary curiosity. When growing old,
i married a niece of Madame de
e moralist, saying, as an excuse to
d friends, "An honest man ought
out the church's threshold, and die
estry."

ALEXANDER DALLAS, an American born in Philadelphia, July 19, 1806, t-grandson of Dr. Benjamin Frankseducated at the U.S. military West Point, and having graduated

with the highest honors, became lieutenant of topographical engineers, in 1825. During the whole term of four years at West Point, he never received a single mark of demerit. In 1827 he was elected professor of mathematics in the university of Pennsylvania, where he remained until he was appointed president of Girard college, and went to Europe to inspect the seats of learning there. Soon after his return to Philadelphia, Girard college not having then been opened, he resigned the presidency of that institution, and was appointed the first principal of the high school in Philadelphia. This situation he left in 1843, on being appointed to his present office, as superintendent of the U. S. coast survey—a work so well begun by Mr. Hassler, but which has never been generously supported by congress. Under the energetic and wise direction of Prof. Bache, it has been fruitful not only in practical benefit to navigators, but in valuable contributions to geodetic and physical science. These contributions may be found in the annual reports of the survey, and in a more detailed form in the proceedings of the American association for the advancement of science.

BACHE, BENJAMIN FRANKLIN, an American journalist, a grandson of Dr. Franklin, died in 1799. He accompanied Dr. Franklin to Paria, and completed his education as a printer in the celebrated publishing house of the brothers Didot. Returning in 1785, he studied for a time in the college of Philadelphia, and, in 1790, began the publication of the "General Advertiser," afterward called the "Aurora." This was the ablest and most influential opposition journal during the first two administrations.

BACHE, RIGHARD, a merchant of Philadelphia, born in England in 1737, died in Berks co., Pennsylvania, July 29, 1811. He came to America in early life, and married, in 1767, the only daughter of Dr. Franklin. At the beginning of the revolution, he was president of the republican society of Philadelphia, and from 1776 to 1782, was postmaster-general of the United States.

BACHE, SARAH, the only daughter of Benjamin Franklin, and the wife of Richard Bache, was born in Philadelphia in Sept. 1744, died in 1808. She was one of the heroines of the American revolution, and is worthy to be remembered for her intelligence, her virtues, and her services. In the year 1780, when many soldiers of the American army were going barefoot and half-clad, an effort was made by the American women to furnish clothing to them. The marchioness de Lafsyette contributed 100 guineas, the countess de Luzerne \$6,000, and Robert Morris and other wealthy patriots contributed considerable amounts. The money was expended for materials, which, by the continued labors of many women, were soon made into the needed garments. In this work Mrs. Bache was prominently engaged, assisting by her judgment all its plans and proceedings, and active also in

the use of the needle. More than 2,200 women were thus employed by her at one time, in sew-ing for the army. The marquis de Chastellux, ing for the army. The marquis de Chastellux, then visiting in Philadelphia, was charmed with the appearance of Mrs. Bache, and recommended her to the ladies of Europe as a model of domestic virtues and feminine patriotism. On many occasions she displayed her active benev-olence and her love of country, by performing hospital duties, tending the sick soldiers, dress-ing the wounds of the wounded, and administering medicines and cordials.

ried man. In antiquity it was considered un-patriotic in a citizen to remain a bachelor all his days. By the Spartan laws the considered his days. By the Spartan laws, those citizens who remained bachelors after middle age were excluded from all offices, civil and military.

At certain feasts they were exposed to public derision, and led round the market-place. Although, generally speaking, age was deeply respected at Sparta, yet this feeling was not manifested toward old bachelors. "Why should manifested toward old bachelors. "Why should I make way for you?" said a Spartan youth to a gray-headed Spartan bachelor, "who will never have a son to do me the same honor when I am old?" The Roman law pursued the same policy toward bachelors. They had to pay extra and special taxes, and under Augustua, the Lex Julia de maritandis Ordinibus was enacted, by which bachelors were made incapable of acquiring legacies and devises of real estate by will, except from their near relations. In the canon law bachelors are enjoined to marry, or else to law bachelors are enjoined to marry, or else to profess chastity in earnest by becoming monks. In modern times this policy has been abandoned.

BACHELU, GILBERT DESIRÉ JOSEPH, baron, a
French general, born in Dole (Jura), Feb. 9, 1777,
died in Paris in June, 1849. He took an active
part in the Rhenish and Egyptian campaigns
under Moreau and Kleber. He accompanied Leclerc on his expedition to St. Domingo. In the
battle of Austerlitz he commanded the 11th regibattle of Austerlitz he commanded the 11th regiment. He gained a brilliant victory with a handful of men near Castel-nuovo, May 30, 1807, over 2 Russian battalions and 5,000 Montenegrins. He was promoted to the rank of brigadier-general, and afterward fought at Wagram, in Russia, under Macdonald, and at the siege of Dantzic. In 1814, on his return to Paris, he was recognized by Louis XVIII. as one of the lieutenant-generals of the French army. But in 1815, he again took service under Napoleon. in 1815, he again took service under Napoleon, and after the battle of Waterloo he was for some time placed under arrest, and doomed to exile, until 1817, when he was recalled. In 1837 he was sent as deputy to the chamber, by the electoral committee of his native town, he had a large to the chamber of his native town. Dole. In the legislature he acted with the

opposition.
BACHMAN, John, D. D., LL. D., an I can naturalist and theol German Lutheran church born in Dutchess co., N. Y., 1 was an associate of Audubon, 1

in the preparation of his great work on ogy, and was the principal author of the on the quadrupeds of N. America, ileas by Audubon and his sons. He has also dies the bearings of modern science upon rea religion, and his communications upon this ject to the "Medical Journal" of South lina have extended his reputation both feel ing and for piety. He has also written a controversial work in defence of the most character of Martin Luther. He is a a though fluent writer, an earnest peter, esteemed among the first naturalists

Country.
BACHMANN, ANDERLETZ NIKOLAS B baron von, a Swiss general, born in Ger 1740, died in his native village, 181. I tered the French service at 9 years of fought as captain in the 7 years war, m came commander of a regiment in 179. . the dethronement of Louis XVI., be fel Switzerland, and took service under the of Sardinia, as major-general. When Pad and Savoy were conquered by the Fa fled to England, and commanded a rethe British foreign legion; he return zerland again, in the enjoyment of a pension, and fought against the French battles of Zurich, Feldkirch, and Zag. A French success in Switzerland, he led time in Swabia. In 1814 he bec of the Swiss in the service of the Bour after the return of Napoleon from Ele in-chief of the Swiss army-but aft of 1815 he retired from that profes of 1815 he retired from that profession he had served for more than 60 years, the nal estates, where he died.—Kant Par professor of philosophy at Jena, bern 25 burg, 1785, died at Jena, Sept. 20, 18 writings are numerous, but he is most for his Anti-Hegel, issued in 1835.

BACHOFEN, a market-town of son the Iser. It was plundered by the in the 30 years' war.

BACHTELEN, a small hamlet of Switzerland remarkable for its refere

Switzerland, remarkable for its n Switzeriand, remarkable for its resident of the convictions children and those convictions misdemeanors. This school was example to the conviction of the co admitted singly and at intervals mote; they are put on probe months, and then placed in on of which there are if or 4, each shildren, under the special diroughly trained teacher; those Vehrli being preferred. Child from 6 to 15 years of age, and least 4 years. Four teaches lirector, a farmer, a stablema receper, are the hired employer gardening, with some of the a arta, constitute the employmental.

teachers, exert an influence so the children as to make their ref-comparatively easy work. The comparatively easy work. The e uniformly done well. The expupil is about \$49 50.

or Basner (Fr. bassinet), origi-cap of a low circular shape, called e, from the protection which it afbrain, which was the basis of the htly helmet of the improved form, th century. It consists of a plain , as its name indicates, covering n the brows to the nape of the s were attached: 1, the camail, covering the neck downward r rim behind-afterward replaced ites of steel, connected with the rotecting the whole neck and e shoulders; 2, the avantaille, raised, left the eyes and face down uncovered, and the beaver, which, closed the mouth; these 2 closed meeting each other and visor, which guarded the whole f the wearer; and lastly, the burton which was often attached a umage, or a lady's favor. Afternet was often worn alone witht, or ornament, except the mail-armor, as is seen on the monarinor, as is seen on the mon-Black prince, represented in the tion of Froissart; and, yet later, ill-cap with a peak before and be-k-pieces, leaving the whole face orn by the archers and pikemen time, and by Cromwell's irons name. RAHAM, a distinguished physician

, born at Söderhamn, Sweden, 18, died at Stockholm, March 15, ommenced the study of theoldevoted himself to medicine. at Upsal in 1740, and immediately at Upsal in 1740, and immediately
and Germany, in which counued his studies until 1745. He
share in the work of providing
h hospitals, and his life and labors
owerful influence upon the proal science in Sweden. Linnæus, for his botanical abilities, gave e species Bāckea.

George, F. R. S., an Arctic a at Stockport, in Cheshire, Eng-1796. He entered the royal navy st commission being as midship-the Arethusa, Capt. Robert vas present at the capture of a eer off Cherbourg in 1809, and he year was employed in the de-batteries of Leyquitio, and the ral vessels in the river Andero. prience of naval warfare was at ich occasion he was made prison-France. At the end of 5 years liberty, served under Sir Thomas on board the Akbar, at Flushing,

passed his examination in 1817, was removed successively to the Bulwark, Sir Charles Rowley, and the Trent, lieutenant-commander John Franklin, and accompanied Capt. David Buchan on an expedition to the neighborhood of Spitz-In 1819 he was one of the 2 midshipmen appointed to attend Sir John Franklin on his overland expedition from the western shore of Hudson's bay to the northern coast of America, near the Coppermine river. In this difficult and adventurous journey, Mr. Back displayed a perseverance and an energy which won for him the highest encomiums. The party reached Fort Enterprise in July, 1820, and determined to winter there, while Mr. Back returned to Fort Chipewyan (a distance of 500 miles), to obtain fresh supplies. He acquitted himself of this duty after undergoing the most terrible hardships from cold and hunger, and rejoined his party in March, 1821. About this time he was promoted to the rank of lieutenant. The expedition returned to York Factory his overland expedition from the western shore The expedition returned to York Factory in 1823, and 2 years after Mr. Back joined Franklin's second expedition, designed to co-operate with Beechey and Parry, in their efoperate with Decemey and Farry, in their electrons to discover from opposite quarters the north-west passage. Lieut. Back penetrated as far as lat. 70° 24′ N., long. 149° 37′ W., and on Capt. Franklin's setting out from Great Bear lake, on the return of the expedition, he was left in charge of the remaining officers and men, at Fort Franklin, with all the stores, journals of the voyage, &c. On the breaking up of the ice, he started for York Factory, and thence set sail for England, where he arrived in 1827. During his absence, in 1825, he had been promoted to the rank of commander, and in 1838, undismayed by the remembrance of his past sufferings in the Polar seas, he took charge of the party sent out in search of Sir John Ross, who had left England in 1829. Capt. Back published an interesting history of this voyage, during which his hardships and perils were no less expelling these on the previous expeditions. less appalling than on the previous expeditions. Receiving intelligence of Ross's safety, he returned home in 1835, obtained his post rank, and in June, 1836, we find him in command of the Terror, about starting on a fresh Arctic voyage, of which we have a full account in his "Narrative of an expedition in H. M. ship Terror, undertaken with a view to geographical discovery on the Arctic shores in 1836-"7." Though ably commanded and supplied with an excellent outfit the expedition accomplished excellent outfit, the expedition accomplished nothing. It was the last undertaken by Capt. Back, who has since been permitted to retire upon half-pay. In token of appreciation of his services the geographical society awarded him a gold medal in 1837; 2 years afterward he was knighted, and he now holds a lucrative treasury appointment. In 1846 he was married to Mrs. Theodosia Elizabeth Hammond.

BACK'S SOUND, the region in British N. America, around the Arctic circle, between long. 95° and 108° W., explored by Back in 1831.

BACKERELL GILLS a linth painter lived

BACKERELL, GILLES, a Dutch painter, lived

in 1709. Employed first in busifather, and subsequently by a mer-msterdam, his fondness for shipping equently to the port of the city, made admirable drawings, which e him a reputation as an artist. e fishermen to take him out to sea ms, and on landing he transferred r to the canvas his impressions of se had just witnessed. This gave to great freshness and reality. eter, during his stay at Zaardam, ame up to Amsterdam to Backhuyand often endeavored to make drawessels which the artist had designed. lebrated work of art, representing a icture with a multitude of vessels, of Amsterdam in the distance, is in It was presented, in 1665, to by the authorities of Amsterdam, squest the picture was executed by , who received for this work more pay, the remuneration afforded to about \$600.—He must not be con-th another artist of the same name, died, in Rotterdam, 1782, who was battle pieces.

Azer, an American clergyman, and esident of Hamilton college, in the w York, born at Norwich, Connec-18, 1765, died Dec. 9, 1817. His par-of the Congregational church, and near relations were clergymen, yet he ed to deistical opinions. He gradu-le college in 1787, with a high repucholarship, and under the subsequent ition of his uncle, the Rev. Charles ame converted to Christianity, and of engaging in the Christian minisbt as to his duty, he resolved to enter ut a visit from his uncle on the day is intended departure, changed his d he began the study of theology. succeeded Dr. Bellamy as minister m; in 1798, preached the annual elec-before the legislature of Connecti-on the establishment of Hamilton ı before the 1812, was elected its president, and I in his new office, Dec. 3. The pered under his supervision, but his r was terminated by his sudden resafter his election. He left several rs after his election. emons.

3, Isaac, an American Baptist clergy at Norwich, Conn., in 1724, died 06. He left the Congregational for church, and to his exertions the omination in America is largely inits prosperity. He was an earnest religious freedom and of the equal hristians, and was sent, in 1111, claim from congress, then in session this, the same liberties for the Baptist other churches. In upon the constitution of the church, d the entire separation of the church **vol. 11.—3**0

from the state. He was one of the most voluminous of American Baptist writers, and left a valuable history of that denomination.

BACLER D'ALBE, Louis Albert Ghelain, a French painter and soldier, born Oct. 21, 1762, at St. Pol, died at Sevres, Sept. 12, 1824. In order to study scenery, he took up his habitation at Sallenches, at the foot of Mont Blanc, and lived there 7 years. He afterward became a soldier under Bonaparte, and distinguished himself at Arcole, of which battle he made a picture. He also made drawings of the movepicture. He also made drawings of the movements and plans of the Italian campaigns. When the French were driven out of Italy by Suwaroff, Bacler lost many of his drawings, but the Austrian government returned them to him. Bonaparte took Bacler about with him in all his campaigns. He was made general of brigade in 1818. At this time of his life he sketched every day the movement of the troops projected for the morrow. He was excluded from public employment on the return of the Rourbons. Bourbons.

Bourbons.

BACOLOR, the chief town of the province of Pampanga, in the island of Luzon. It is situated in a plain, and is connected with the river Pampanga by means of a canal; pop. 8,548. During the brief occupation of Manila by the British in 1762, it was the capital of the Philip-

BACON, ANNE, born about 1528, died in 1600, one of the 4 learned daughters of Sir Anthony Cooke, who was the tutor of King Edward VI., wife of Sir Nicholas Bacon, and mother of Francis. Her father, acting upon a fewerite opinion then becoming prevalent that favorite opinion, then becoming prevalent, that the female mind was as susceptible of cultivation as the male, every evening instructed his daughters in all the lessons which, during the day, he had imparted to the king. He was re-warded for his pains; for he lived to see his daughters not only happily married, but dis-tinguished for their virtues and accomplishments. Lady Anne became renowned as an excellent scholar, the translator from the Italian of 14 sermons of Ochinus, a learned divine, and, Lady Anne became renowned as an ex-

From the Latin, of Bishop Jewell's Apologia.

BACON, ANTHONY, an elder brother of the more celebrated Francis Bacon, was born in 1558, and studied at Cambridge, where he was matriculated in 1573. He went to Paris in 1579, where he formed an acquaintance with Henry IV., and entered into correspondence with the most eminent literary men of the day.
The first edition of the famous "Essays" by his

brother, was dedicated to him in 1597. The time of his death is unknown.

BACON, FRANCIS, Viscount St. Albans and Baron Verulam, whom Pope pronounces the "wisest" and "brightest" of mankind, adding not her with the test of the property of the state another epithet not so honorable, was born at York house, in the Strand, London, Jan. 22, 1561, died at Highgate, April 9, 1626. He was the youngest son of Sir Nicholas Bacon, an emi-nent lawyer and statesman. Early in life he gave signs of great readiness and fertility of BACON 467

ished his first political tract, aration of the Causes of the a vindication of the course of t to continental policy. Three he issued a small 12mo called s Meditations, and a Table of sod and Evil." It contained all, of which he says that he be "like the late new halfagh the pieces were small, the Abounding in condensed ought, expressed with much thout much imagery, they yet wonderful sagacity and com-They were translated almost French, Italian, and Latin, and subsequently augmented both ngth, the most popular of his d Stewart has properly re-ok that "it may be read from in a few hours, and yet, after ding, one seldom fails to re-hing overlooked before." Dr. hing overlooked before." Dr. ntly published (1857) a new excellent introduction and tes. By Bacon's contempora-fully received, "as the little prophet," says Basil Montagu, as the harbinger of showers ilize the whole country."

r affairs at this time were in a in order to retrieve them he m lucrative matrimonial conse plans also miscarried, and sted for debt. Early in the Early in the body of the Irish, denied the laws, and hunted like wild sheltered themselves in their sts, and grew every day more dangerous. It became neces em, and Essex was appointed t of Ireland; but his conduct rash and haughty that Bacon, onstrating with him, was at to turn against him. By this to turn against him. By this aid of that powerful noble, ther very many or very sincere er side. His conduct in respect was tried and condemned in the year 1600, exposed rge of ingratitude and doubleand though Mr. Basil Mon-of Bacon, labored hard, and to y, to acquit him of the obloquy is then visited, he has scarcely in the judgment of posterity. pears in the court against the en his benefactor and friend, s skill as a lawyer to heighten ime, and that in pursuit of the een, who had slighted him in een, who had slighted him in iated his talents in maturer him, the son of one of her faithful ministers, to lie in a g-house for a debt of £300. He did not, however, gain much from his fidelity to this sovereign, who either did not discern, or wilfully neglected his merits. On the accession of James in 1603, he had every thing to expect from the disposition of that monarch, who was a lover of letters, and desired to diswho was a lover of letters, and desired to distinguish himself as a patron of learning. Bacon possessed the additional title to his favor that his eloquence and information gave him great weight in parliament. Appointed by the house on the committee to make a representation of the misconduct of the royal purveyors, he discharged the task with so much discretion that while he satisfied the king, he won from the house a vote of thanks. James made him one of his counsel, an office to which a small pension was attached, and from that time he pension was attached, and from that time he continued to rise in spite of the opposition of the Cecils, and the rivalry of Sir Edward Coke, the attorney-general. In 1607 he was made solicitor-general, by which his practice in Westminster hall was rapidly extended. About the same time he married Alice, daughter of Benedict Barnham, a wealthy alderman of London—thus succeeding in his third attempt at a wealthy marriage. His tact, his knowledge and his electron combined waised him to the wealthy marriage. His tact, his knowledge, and his eloquence combined, raised him to the highest point of reputation in the commons, while his standing at the bar was every day confirmed, and his favor at court was increased. But these political and personal struggles did not separate him from those philosophical inquiries which were the first love of his heart. In the year 1605 he published "The Advancement of Learning," a work which inaugurated an era in the history of English literature and ment of Learning," a work which inaugurated an era in the history of English literature and science. It professed to be a survey of existing knowledge, with a description of the parts of science yet unexplored, and might be regarded as a picture of both the cultivated parts of the intellectual world, and of its outlying, untrodden deserts. In the outset he examines the objections to learning; he next points out the advantages of learning; he then describes the places of it in the universities; and finally, the repositories of it, or books and libraries, which are the "shrines where all the relics of the repositories of it, or books and libraries, which are the "shrines where all the relics of the ancient saints, full of true virtue," are preserved. Having thus cleared the way, he proceeds to investigate all the different kinds of knowledge, dividing it into that which relates to the memory, or history, that which relates to imagination, or poetry, and that which relates to the understanding, or philosophy. Methodically digested, comprehensive in view, abounding in information profound in thought, and ing in information, profound in thought, and brilliant with imagery—this work alone would have been sufficient to place Bacon among the intellectual giants of his race. Yet his active and vigorous mind continued to busy itself with other speculations; beside his many speeches in the commons and his arguments at the bar, he wrote numerous tracts, such as "A Discourse on the Happy Union;" an "Advertisement, Touching the Controversy of the Church of England," and pamphlets upon law reform,

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and other topics of prevalent interest. All the while he was also employed in meditating the great Novum Organum Scientiarum, of which sketches, or as the artists would say "studies," were prepared in the shape of his Cogitata et Vita, the Filum Labyrinthi, and the Temporis Partus Maximus. His lesser writings he undertook, as he says, to secure him a degree of prepared and consideration in the general mind. spect and consideration in the general mind respect and consideration in the general mind, which might afterward serve to conciliate it toward the peculiarity of his opinions, or to answer as a bulwark against unfriendly assaults. In this intention he wrote and sent forth, in 1610, the "Wisdom of the Ancients," a book in which the classical fables are made a book in which the classical lables are made the vehicles of original and striking thoughts, clothed in remarkable beauty of language, and ornamented with graceful figures. Meantime his political advancement went steadily for-ward; in 1611 he was a joint judge of the knight marshal's court; and the next year he was appointed attorney-general, and elected a member of the privy council. While he held member of the privy council. While he held the attorney-generalship he was engaged in several important causes. He was the prose-cutor of Oliver St. John, of Owen and Talbot, and of the old clergyman Peacham, who was indicted for the treason contained in a sermon which was never preached. It is said that he was examined in the tower under torture, and that Bacon was present, assisting at the opera-tion. It is a curious fact that the founder of modern philosophy should have consented to the barbarous system of extorting evidence by suffering. A more important trial than either suffering. A more important trial than either of these, in which he was concerned, was that of the earl and countess of Somerset and their accomplices, for the murder of Sir Thomas Overaccomplices, for the murder of Sir Thomas Overbury, in the conduct of which he earned the highest distinction. The pecuniary embarrassments under which he once suffered, were of course now at an end. His professional practice was large; the attorney-generalship was worth £6,000 per annum; as register of the star-chamber he was entitled to £1,600 per annum; his father's seat at Gordanbury had star-chamber he was entitled to £1,000 per annum; his father's seat at Gorhambury had passed to him in consequence of the death of his brother; and he was also possessed of a considerable estate in Hertfordshire, beside the fortune acquired through his wife. In 1616 Bacon relinquished the bar, but retained his chamber practice. In the spring of the following year, the lord chancellor, Ellesmere, resigned the seals, which were handed over to Bacon, with the title of lord keeper. In January of 1618 he was created lord high chancellor, and the same year was raised to the poorage as the same year was raised to the poorage as baron of Verulam. His higher title of viscount St. Albans was not conferred upon him till 1621. Bacon entered upon his judicial duties with elaborate pomp, and delivered a long and eloquent speech in the presence of the judges and the nobility. On January 22, 1620, he celebrated his 60th birthday, commemorated by the indifferent poetry of Jonson; and thus having reached the summit of political prefer-

ment and of personal ambition maturity of his genius, surrounde ble friends, and able by his like as well as by the frequent des his more illustrious talents, to audience, he thought it a fitting tin the world the great Novum Orysmu restoration of the sciences, which h burden of the thoughts of his life. October of 1630 that it was fi Twelve times it had bee n cop before it assumed the shape in which before it assumed the shape in which committed "to posterity."—The fall Bacon's work was the Novum Oyun Indicia Vera de Interpretations has Regno Hominia, and the title sums up and chief. pal object. He proposed to s scholastic logic, represented in the Aristotle, by a new organon, in what and solid principle of investigations and solid principle of investigations. cented in the O and solid principle or thresholds should supplant the old principle verbal dialectics, and lead to "fall" shape of genuine knowledge. It was in Latin, because it was addressed the learned men of Europe, and or short pithy sentences, that it may upon their minds by its repetitions, all engraved upon the memory. It is ever, but a part of a larger work-of stauratio Magna—in which he design habilitate not only the methods of si science itself, and of which the land was an opening chapter, and the modern discovery the complete, place, of course, we cannot so modoutline of its contents. Bacon's l was the good of humanity. He study, instead of employing itself in and sterile speculations, should be mastering the secrets of nature and applying them to human use. the attainment of this end, was rig observation, aided by experiment, a by induction. Instead of hypothe for facts, gathered laboriously fro of nature's silent revolutions, skilfully by instruments and tria forward by careful generalisti world of the known to the unk world of the known to the effects to causes, and not effects, was the spirit of his And that he might not mi mere general views, Basson new logic of observation as sought to exemplify it in mill is in this latter process. least succeeded; but it we judge of Bacon's system by it not propose to himself, in the to make discoveries, but simp to be made, or to teach the to he made, or to teach the could be made. He comp-statues of Mercury which although they do not pass or to a trumpet which while it takes me part in the

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the least happy part of his work, Babits a fine scientific sense, and anticisoveries reserved as the reward of earch. He clearly, for instance, intermometer (l. ii. aph. 13); he iningenious experiments on the comity of bodies, and on the density and fair: he suggests chemical processes); he suspected the law of universal n (aph. 35, 36, and 45), afterward rated by Newton; he foresaw the true on of the tides (aph. 45, 48) and the colors, which he ascribes to the manhich bodies, owing to their different reflect the rays of light. Nor did Basome have wrongly supposed, confine od to the natural sciences alone; he thended its use in psychological investites well; and the metaphysics of the chool are an attempt to render mental scording to his rules.—This immense recedented book was received—as such set be—with admiration by a discern—but with ridicule and scorn by the ewits and geniuses. Bacon's old enemy, rote upon the title-page of a presency, having the device of a ship passing as of Hercules, Rules of the presence of feed the page of the page of feed the page of feed the page of the page of feed the page of feed the page of feed the page of the page of feed th

Bat to be freighted in the ship of fools,

'as neither good sense nor good poetry.

mid that he wrote of philosophy like
hancellor. King James, in his pedanit, compared it to the peace of God,
seeth all understanding. Yet there
me who perceived its truth, among
Ben Jonson, the poet, and Sir Henry
the latter of whom, addressing him,
our lordship hath done a great and
g benefit to all the children of nature,
ture herself in her uppermost extent
le: who nover before had so noble
te an interpreter: never so inward a
of her cabinet." And this has been
t unanimous opinion of posterity.
Lory of Bacon ascended on the eve of
graceful fall. His moral dignity was
evel with his intellectual penetration.
broad, and deep, and vigorous, but
nature. Giving himself up to imthe shouse of corruption. In the house of
on March 15, 1621, Sir Robert Phillips
from a committee appointed to inthe abuses of courts of justice, 2
corruption against the lord chancelof these was on a petition of a man
threy, who alleged that he had paid
too to advance a suit; and another on
one Egerton, who had given him a
of £400. Before the close of the prosimilar cases to the number of 24
esented. The commons referred the
he house of peers, as the only tribunal
of trying the lord chancellor. Bacon
to stand up manfully against his accus-

ers; but, his health giving way, he could only write to the lords. He requested that his case should be conducted according to the strictest rules of justice, to which the lords replied that it should be. His friends he as In 14 cases strongest terms of his innocence. In 14 cases it was shown that the presents were given long after the suits were terminated; in other cases the decrees which he rendered had been against the donors; and in other cases the presents were considered not as gifts but as loans, and he had decided against his creditors. Yet, when brought to the test, Bacon submitted to the accusations. His submission, it is al-leged, was brought about by the king, who even persuaded Bacon to sacrifice himself as a tub to the whale of popular excitement. On April 22, 1621, he wrote to the lords that he abandoned his defence, and moved them to con-demn and censure him. The house required that he should furnish categorical answers to the several articles of charge, which he did, saying to each "I do plainly and ingenuously confess that I am guilty of corruption, and do renounce all defence," &c. A deputation of the lords being appointed to wait on him, to ask if the confession was his, he said: "It is my act, my hand, my heart. I beseech your lordships, be merciful to a broken reed." His humiliation was complete, and his spirit was crushed within him. He hoped that the king, or his son, or their favorite Buckingham, would interfere to stay the sentence; but they refused. On the 3d of May, he was sentenced that he should furnish categorical answers to interfere to stay the sentence; but they refused. On the 3d of May, he was sentenced to a fine of £40,000, and to imprisonment in the Tower during the king's pleasure. He was released from imprisonment after 2 days, and the fine was subsequently remitted; but his disgrace was final. Once afterward he was summoned to attend parliament; but he never recovered his standing, and he spent the remainder of his days in scientific studies, and among the few friends whom adversity had left him. His "History of Henry VII." and some works on natural history were all that he published after his fall.—A more melancholy close to a career so brilliant,—regard it in any light,—can scarcely be contemplated. The imputations on his honor were doubtless exaggerated by the prejudices of the day, but his own confessions force us to believe that they were well founded, or else that he, in base subserviency to the court, subscribed himself a liar. Mr. Basil Montagu, in his admirable, though partial, life of Bacon, adopts the latter alternative, and argues against his corruption in favor of his weakness. But the excuse is scarcely less debasing than the fault; while there is a palliation of the fault, which does not justify the excuse, but rather renders it the more gratuitously base. The practice of receiving gifts was an habitual one; and Bacon probably spoke the truth when he averred that he had been the justest chancellor for many years. He died, saying in his will that "my name and memory I leave to foreign nations confessions force us to believe that they were

and to my own countrymen, after some time be passed over."—Foreign nations and his own countrymen have accepted the trust. Without forgetting how he acted unworthily of his noble endowments, they have been disposed to pass lightly over his defects, in consideration of his services. His deeds have mostly dropped away from memory with the occasions in which ey originated; but the greatness and useful-es of his thoughts have won his name an imerishable glory. As a man on whom God ad showered the finest gifts of the mind; as a ent to whose penetration and curiosity the whole world of knowledge lay open as a book; as a reformer, who, like another Hercules, wielded his club among the abuses of the law and of learning; as a philosopher, who laid the foundations of our modern science; and as a Christian, who bowed his mighty intellect in humble penitence before the Son of Mary,—he has become the peculiar distinction of the forester that the civilized nations. Whenever has become the peculiar distinction of the for-most among the civilized nations. Whenever the crator or the writer wishes to illustrate the intellectual dignity of England, he refers to Bacon, as her most illustrious example, and the whole world, enamored of the high thoughts, the expanded knowledge, the profound sagaci-ty, and the glowing imagination of his books, treasures them as among the richest legacies of sures them as among the richest legacies of Not without reason did he utter of himelf, in a moment of sublime self-reliance: have held up a light in the obscurity of philosophy, which will be seen centuries after I am dead."—Bacon's life has been written by the Rev. William Rawley, who was his secretary and chaplain, London, 1658; by W. Dugdal, in the Baconians of Thomas Tenison, 1679; by Robert Stephens, London, 1784; by David Mallet, at the head of an edition of his works, 1740; and by M. de Vauzelles, Paris, 1883. The best and most complete edition of his works is that of Spedding, Ellis, and Heath, London, 1887. Besil Montagu's edition (London, 1835-'34) was the occasion of Macaulay's famous essey on the occasion of Macaulay's famous essay on Lord Bacon. Bacon, as vie, at son influence, by Rémusat (Paris, 1857), is a valuable work. An important monograph on Lord Bacon, entitled Frans Bacon con Verulam, by Kumo Fischer, was published in Leipsie, 1856.—[In the foregoing article the professional life of Lord Bacon as a lawyer having been slightly treated of, the following sketch, by another contributor, has been added for the purpose of supplying that deficiency, which, indeed, is a common one in almost all the hierarchies of Bacon.] Lord Bacon had a capacity no less adapted to grapple with the principles of legal science than to illustrate other departments of science than to illustrate other departments of knowledge. It was, however, unfavorable to the accomplishment of as great results in the profession to which are life, not by choice, but constrained by me straitened circumstances, that he lived at a time when the English law consisted mostly of barren precedents, and Judges were averse to any reasoning that had not some analogy profession to which he devoted so much of his

to cases already decided. come for systematizing the developing the principles of fragmentary expositions by ported cases. Neither Que King James perceived the would have resulted from derived their opinion fro selves, and from the prominer of whom were, no doubt, actual of the philosophical genius v sessed, and which admirably work of bringing into order the cit then existed. It is probable, his contemporaries doubted his p -Most of his writings upon lished late in life, or not till a and though his arguments b ought to have put an end to any s yet the fact of his great devotion ences was to the narrow-minded b of that period of itself enough t prejudice, in spite of all the evid to the contrary by his great for Robert Cecil, the son of Lord Bu of him in one of his letters as man indulging himself in philman industrial more to perplex to public business." And Queen marked, when the appointment solicitor-general was urged by sountor-general was urged by sex, "that he had a great wit gift of speech, and much other but in law she thought he cou the uttermost of his knowledge he was deep."—The earliest of on law, which he entitled the the Common Law of England, treatises on "Maxims of the La Uses of the Law," appears to he in 1596, though not published till It was dedicated to Queen Edd doubtless submitted to her, the of course depend upon the judgs yers as to its merits. That judgs vorable, as may be inferred free elicited no encouragement to work. And yet this work, the by the queen and the English any one at the present day as a promise of legal accuses which expected from his great powers Maxims exhibit the same nice d analogies that was afterwarder treatise on the "Colo He says in the preface that Maxima, but that he thou lish some few, that he mi opinions either receive app or advice for the altering of He received peither. The were but 24 in number, were, by this cold reception. Few cases are cited from the gives the reason that it who are learned in the law

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ly judged cases, or sustained by simil-eason, but that in some cases he in-weigh down authorities by evidence and therein rather to correct the law r to sooth a received error, or by unsubtlety, which corrupteth the sense, to reconcile contrarieties."—It is a smark that he was not the equal of ra, particularly Lord Coke, in applyasoning from cases, but it is entirely by that be meant less discrimination d cases. On the contrary, no man in in exact judgment of authorities; he found these authorities unsupport principles, or so conflicting that the to be sought from reasoning, indereported cases.—Sixteen years later ad become attorney-general, he again this subject in "A Proposal for the Laws of England," a tract ad-King James, in which he speaks of a of expounding the laws more than the laws more t d of expounding the laws upon the rtain to be productive of great adartain to be productive of great adind professes his willingness to relabors if desired by the king to do
with the true dignity of a mind
of great powers, he adds: "I do
ir majesty, and am in good hope
Sir Edward Coke's reports and my
lecisions shall come to posterity, there hatsoever is now thought, question he greater lawyer." The king, how-too much taken up with petty dist his prerogative to realize at all the ich would have accrued to the nation, sting renown which would have reo himself by the acceptance of this
neglected it, and again an opportulost of remoulding the English law as never since occurred. We can rer-estimate the change which such a Bacon's would have wrought in the and crude system which has descendthe common law, modified, indeed, time, by many and great improve-which even now retains much that to no other respect than what may great antiquity. During the 5 years vived his impeachment and removal , Bacon again recurred to this favoror rather he seems never to have le. A treatise on universal justice, of 97 aphorisms, is contained in the mtia, published during that period, says, he wishes "to serve as a speciat digest which we propose and have The digest referred to is explained in dressed to the king about that time. had in view was somewhat differ-hat which he had formerly proposed. urange into some order all the laws, atute or common law. "As for my-ays), the law was my profession to n a debtor, some little helps I have of which may give form to matter, and I have now, by God's merciful chastisement, and by his special providence, time and leisure to put my talent, whatever it is, to such exchanges as may perhaps exceed the interests of an active life." The offer met with the same fate as the preceding one. Bacon says, in a letter to Bishop Andrews: "I had a purpose to make a particular digest or recompilement of the laws of mine own nation, yet because it is a work of assistance, and that which I cannot master by my own forces and pen, I have laid it aside." Of his other law writings, the "Readings on the Statute of Uses" is the most elaborate. It has now no practical value, in consequence of the change in the laws wrought by time, but it is esteemed by those who have examined it critically, a very profound treatise. The argument in the case of the postnati of Scotland, the speech in the star-chamber upon private duelling, an account of the office of compositions for alienations, and his speech in the star chamber upon his taking his place as lord chancellor, are the most interesting of his forensic efforts.

BACON, John, an English sculptor of some distinction, born at Southwark, in Surrey, Nov. 24, 1740, died Aug. 4, 1799. His father was a cloth-worker, who apprenticed him at an early age to a porcelain manufacturer, in whose employment he learned the art of painting on china; and also of making ornamental figures in that material. His taste for modelling was so decided that he soon attracted the attention of the sculptors who were in the habit of sending their clay to the pottery works to be baked in 1758, being then 18, he sent a small figure of Peace to the society for the encouragement of the art, which received the premium of ten guineas. On 9 successive occasions he carried off similar prizes from the society. Bacon was then employed at Lambeth, to make statues of artificial stone,—a new art, which, if he did not discover it, was greatly indebted to his ingenuity and perseverance for its success. On the opening of the royal academy in 1768, he gained the first gold medal for sculpture. Two years later, he was chosen an associate of that body. A statue of Mars, which he exhibited about that time, gained him a great reputation, when he removed to London, and entered upon a highly prosperous professional career. His principal works were a monument of the founder of Guy's hospital, Southwark; a monument of Lord Chatham, in Guildhall; a monument to Lord Halifax, in Westminster abbey; the statue of Blackstone, in All Soul's college, Oxford; a recumbent figure of the Thames, in the court-yard of Somerset House; the statues of Howard and Johnson in St. Paul's cathedral; and a second monument of Chatham in Westminster abbey. In these works Bacon evinces mechanical skil, and a sharp eye for reality, but his works scannot be regarded as specimens of the highest style of art. His life was written by Cecil; and there is a full account of him in Allan

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ent of augmentations; 9 years later Hen-III. made him attorney to the court of s—an office of great responsibility and—in which he was continued during the of Edward VI. Having adopted the stant religion, he was excluded from all under Mary; but on the accession of seth he entered her privy council. In the received the great seal, with the rank atthority of lord chancellor. At the pub-Merence held in Westminster, to consider etrines and ceremonies of the church of ted, in 1564, of having a hand in a book to by one Hales, and which questioned the of Mary, queen of Scots, to succeed seth—a view of the case not then held by the privalent was dismissed from the privalent. eth—a view of the case not then held by ourt—he was dismissed from the privy il, and from all participation in public a except in chancery. As he appears to been wrongly suspected, he was afterward and to favor, leaving behind him the reputed aman "full of wit and learning—of a lawyer, and of a true gentleman." His arm and personal dignity caused Elizabeth sm and personal dignity caused Elizabeth of him, "My lord-keeper's soul is well CON, PHANUEL, a divine of Oxford, who han for his divinity. Among his publica-mone of which are now remembered, are ad called the "Snipe," a poem named the ficial Kite," and several dramatic at-such as the "Oculist," the "Moral "" &c. He died in 1785. CON, ROGER, generally called Friar Ba-born at Ilchester, in Somersetshire, in died in 1292 or 1294. He was known in sholastic ages as the Admirable Doctor, se the most eminent of English natural cophers, previous to the era of his namethe great Bacon. At an early age he
ent to Oxford to be educated, whence he
to the university of Paris, then the
famous centre of learning in Europe.
The took his doctor's degree, and also enthe order of the Franciscan monks.
The year 1240, we find him returned to
d, and in a convent of his order, pursuing
any of languages and of natural philosophy.

G. Greek, and Hebrew he learned, to enc, Greek, and Hebrew he learned, to en-simeelf to read Aristotle, and the most commentators upon him in the originals. Greek, and Hebrew he learned, to enhe same time he studied mathematics, m, and astronomy, and that he might re his knowledge of nature at first hand, ade many costly experiments, and coned many costly instruments. In less than the spent more than 2,000 French that the state of the sta

in this way, furnished either by his famthe munificence of friends. But experil science was little in vogue at that time, ds researches excited the hostility of his a. Taught to regard philosophy as little than heresy, and connecting its results those of magic, the clergy prohibited the

lectures of Bacon, and confined the circulation of his writings to the walls of the convent. All the clergy, however, were not so illiberal; Robert Grostete, the bishop of Lincoln, be-friended his efforts; and in 1265, when Clement IV., who had been a cardinal-legate in England, and had heard of Bacon, was raised to the real of the department of Bacon, was raised to the real of the department of Bacon, was raised. to the papal office, he despatched Raymond de Loudun to the Franciscan monk to procure some of his writings. Bacon sent him a work called the Opus Majus, together with 2 other supplementary works, the Opus Minus and the supplementary works, the *Opus Minus* and the *Opus Tertium*. It is not known what reception Clement gave them, but he had scarcely got them in hand, when he died, 1268. From that time, up to the year 1278, Bacon was allowed to prosecute his inquiries in peace; but, in that year, Jerome of Ascoli, who afterward appears as pope under the name of Nicholas IV., repaired to Paris as the superior of the Franciscan order, and was induced to commence proceedings against his Oxford subject. mence proceedings against his Oxford subject. He was summoned to Paris, where a council of Franciscans condemned his writings, and sent him to prison. He was then in his 64th year; and for 10 years he languished in that year; and for 10 years he languished in that dreary confinement, appealing in vain to the popes for release. Some say that he died in the prison; but the better authority is that he was permitted to return to Oxford, where he died. The Opus Majus is the chief monument of his genius, although Bayle and others pretend to reckon up some 101 of his treatises, on various subjects. His chief printed works are Perspectiva, Frankfort, 1614; De Speculis, Frankfort, 1614; De Mirabili Potestate Artis, et Natura, Paris, 1542; De Retardandis Senectutis Accidentibus, Oxford, 1590; and the Opus Majus, edited by Dr. Jebb, London, 1557. Manuscripts of his writings exist in the Cottonian, Harleian, Bodleian, and Vatican libraries. A second manuscript of the Opus Tertium was found in the library at Dousy, by Victor was found in the library at Douay, by Victor Cousin, who gave an account of it, with an elaborate criticism of Bacon and his School phical character, in the Journal des Savans for 1848. Bacon's great work had little influence in its day, but is remarkable for its anticipation of the spirit of modern science. Taking it for of the spirit of modern science. Taking it for granted that he lived at an era of profound intellectual torpor and ignorance, he inquires into the causes of it, and finds them to be: 1, too much blind confidence in authority; 2, too much respect for custom; 3, too much regard for popular prejudices; and 4, too much regard for popular prejudices; and 4, too much conceited selfishness, which induces one to regard as dangerous or purelle whatever he does not know. These correspond very nearly with the several idola, which Chancellor Bacon subsequently held to be the great chatcale to the content of the conten quently held to be the great obstacles to true knowledge. Roger Bacon also claimed for human reason the right to exercise a severe control over all the doctrines submitted to its approbation; he insists upon the dignity and the importance of the sciences, none of which are to be proscribed, and all of which are to be

sen, Grotefend, Offried, Müller, have workers in this department of The best authorities are Wilson's utiqua (1841) and Lassen's Indischen skunde (1849).

O, LUDWIG VON, born at Lick, East ne 8, 1756, died at Königsberg, March The interest of his life hangs upon hat he was a blind author, like the liton and the French Thierry. He ind in his 21st year, from an attack ox. In 1816 he was made superinthe blind asylum at Königsberg. s works are a history of Prench revoluwrote also several romances and

OZ, a town and fortress of Spain, the Estremadura, on the river Guadiana, N. W. of Seville, and 49 S. of Alop. about 15,000. It is especially for its events during the peninsular list of these was the fearful massacre 8, on the breaking out of the general gainst the French. The governor, to suppress the riot, was dragged out, and murdered by the mob. On Feb. on Massena was in full retreat, before from the impregnable lines of Torres Lit took up his position before the adajoz, defended by the veteran, Wellington made every effort to dizabel, the Spanish general, in the
the siege; and sent to him for that
the Spanish divisions of his own h rendered the Spaniards in the field, ting the garrison into consideration, to the French force outside of the owever Mendizabel, the Spanish comfered himself to be surprised and as with the loss of 8,000 men and seed to the constant of the control of the cont illery, a few escaping, with their to Elvas, while 3,000 throw them-Badajoz, which now had 9,000 men ralls, and 170 guns. Unfortunate-Menacho was killed during a sally e, Menacho was kined during daring of March 2, the ramparts were reached, and although the breaches cticable while the French had but 6 ttery, one of which was dismounted, t was known that Beresford was on to relieve the garrison, at the head Imas, who had succeeded to ad of the place, shamefully surren-This disaster, which the duke of described as, in his opinion, by far t misfortune which had befallen the t misfortune which had betailen the the commencement of the peninoccurred March 10, 1811; and 7, as soon as the retreat of Masully developed, Wellington detertake the stronghold of Badajoz. It ingly invested, May 5, 1811, and was not then in the British army of sappers and private the sellips of sappers and miners, nor a soli-e who knew how to conduct ap-

proaches under fire, the siege was begun with great alacrity. But before much had been accomplished, Soult came up from Seville, and the battle of Albuera was fought. After this battle, Wellington, who had come up in person, renewed the siege with the utmost vigor. On June 6, the breach was declared practicable, but on that day and on June 9, the British troops were repulsed in two several attacks, with predictions less; and Marmont and Soult with prodigious loss; and Marmont and Soult coming up with vastly superior numbers, Wellington was reluctantly compelled to raise the siege, and retire into Portugal.—On the morning of Jan. 8, Wellington crossed the Agueda, and resumed the offensive, while the enemy were far aloof. After the capture of Ciudad Rodrigo, by storm, Jan. 18, 1812, Wellington turned his attention toward Badajoz, which he resolved to take by a similar coup de main. With great skill and subtlety, he contrived to deceive Napoleon himself, to whom all the details of the war were referred by telegraph, so completely that no steps were taken for the relief of the place, until the English siege artillery was actually before the walls. On March 15, the pontoons were thrown across the Guadiana, and on the 17th the investment of the fortress was completed. It was a place of great strength, most ably defended by Philippon, who by his most ably defended by Philippon, who by his former successful defence had become thoroughly acquainted with all its strength and weakness, and was admirably seconded in his defence, by a picked garrison of 5,000 men, the flower of the French armies, and whose resistance, although unsuccessful, crowned him with undying honor. On the 24th, as it was known that Soult was energetically striving to raise means for the relief of the place, the advanced post, called the Picurina, though not breached, was stormed and taken, with a loss of 350 men was stormed and taken, with a loss of 350 men was stormed and taken, with a loss of 350 men in the assault, which lasted but one hour, although Philippon was confident of making the fort good for 4 or 5 days, and delaying by so long the fall of the place. On the morning of April 6, the walls of the town itself were breached in 8 places, and the breaches were declared practicable, although the counterscarp remained entire and predictions of our hard beautiful to the state of t remained entire, and prodigious efforts had been made to retrench the breaches, and to fortify the summit of the ruins, which were rendered impassable by huge beams bristling with sword blades, while the whole ascent was strewed with live shells, and honey-combed with mines, ready to explode under the feet of the assailants.—At 10 o'clock at night the assault commenced, by the most of 2 divisions, in all 10,000 strong, preceded by storming parties each of 500 men, with ladders and axes, led by their respective forlorn hopes, against the 3 breaches, while Picton, with a third division, was destined to storm the castle in the rear, during the progress of the main assaults. Nothing like the loss and carnage of that hideous midnight attack has been recorded in the history of war. The breaches were carried, amid the explosion of mines, the bursting of shells, the roar of

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ruins), near Freiburg, and became the founder

is Carlsruhe, which, in 1855, had a of 25,160 inhabitants. The most commercial city is Mannheim, with The most renowned cities bitants. e Heidelberg, the seat of a celebrated and Baden-Baden, the famous waterand Baden-Baden, the famous waterOn the western side of Baden, and
ulong the Rhine, is a fertile strip of
which the rest of the country rises
east. In the southern and eastern
Schwarzwald (Black Forest), extendard as far as the river Neckar, and
th of this river is the Odenwald
anga which may be considered as a th of this river is the Odenwald ange, which may be considered as a n of the Schwarzwald, but much d. The highest peaks of the Black the Feldberg, 4,650 feet, and the 397 feet. The highest point of the the Katzenbückel, is only 2,180 feet ween the Rhine and the little river the Kaiserstuhl, an independent volume for the transfer of the Kaiserstuhl, an independent volnearly 10 miles in length and 5 in highest point of this group is 1,760 principal river is the Rhine, which oundary of the duchy on the north The other most important river is , and among the smaller rivers are Tauber, Murg, Kinzig, Wutach, Elz. The Danube takes its rise near the chapel of St. Martin, on se east of the Black Forest, under the 16 Brege. Near Donaueschingen in the Brigach, and with another ne of water from the palace-yard of ingen, and on leaving Donaueschingen called Danube. Baden has also a lakes, as the Mummel Wilder, Non-iher, Titti, Eichener, &c. A part of ance belongs to Baden.—In the plains the climate is mild and agreeable, nigher parts it is cold and moist, with g the greater part of the year, and ently very sudden transitions from ummer. But on the whole the cli-y salubrious.—The population of the e circle springs from the Alemanni; hores of the Murg and the lower e the Frankish race preponderates; ion along the lake shores are of Suevin) and Vindelician origin. The charpeople is marked by the most sterling honesty, industry, uprightness, and ut the population of the Black Forest pical of the ancient German characinhabitants along the shores of the rhaps the most industrious people of ne inhabitant of the Odenwald is the tthe most contented of all. He lives io mouth, but never grumbles. Until 1 was a margraviate, with an area of 1,400 sq. miles; pop. about 250,000. end of the 8th century Gerold, the escendant of Gottfried, duke of the who died in 709, became margrave of istrict, and his great-grandson Ber; the castle of Zähringen (now in

of the Zähringen dynasty, under the name of Berthold von Zähringen. The emperor Henry III. created him duke of Swabia. This dukedom subsequently passed into the hands of another prince, and in 1060 Berthold was made duke of Carinthia and margrave of Verona. Berthold's son Hermann acquired Baden by marriage, and, under the name of Hermann I., his son became the first margrave of Baden. After the reign of the first margrave of Baden. Hermann IV., who died in 1 the first margrave of Baden. After the reign of Hermann IV., who died in 1190, on a crusade, Baden was divided into 2 lines. Hermann V. became the sovereign of the Baden line, and his younger brother, Henry, the head of the collateral line of Hockberg. Hermann VI. died, after ashort reign, by poison. His successor, Frederic of Baden, was, together with his friend Conrad, of Swabia, treacherously executed at Naules in of Swabia, treacherously executed at Naples in 1218. Under Rudolph I. many divisions took place, which for upward of a century created constant agitation and changes. On the death of Christopher I. in 1527, the margraviate was divided among his two surviving sons, who thus formed the two lines of Baden-Baden and Baden-Durlach. The line of Baden-Baden became extinct by the death of Augustus George, in 1771, and its possessions were united with Baden-Durlach, under the long and prosperous reign of margrave Charles Frederic. By the treaty of Luneville in 1801, Baden acquired a considerable addition of territory, and was further increased in 1807, when the mar-grave received the title of elector. By the treaty of Presburg, in 1803, Breisgau was annexed to Baden. In 1806 on the dissolution of the German empire, on his joining the confederation of the Rhine, the elector received the title of grand duke, and 1,950 square miles of additional grand duke, and 1,950 square miles of additional territory; some smaller additions in 1809 and 1810, increased Baden to its present extent. Charles Frederic died in 1811, and was succeeded by his grandson, Charles Louis Frederic, who died in 1818. He was succeeded by the state of the state his uncle, Louis, who reigned from 1818 to 1830, when he died. After his death the throne devolved upon grand duke Leopold, his step-brother, born 1790, who was succeeded by his son Louis. The grand duke Louis, born in 1822, was removed from the throne for mental incapacity. The grand duke Frederic William Louis, born in 1826, the present sovereign, was appointed regent. The government is a hereditary monarchy, vested in the grand duke, who is assisted in the legislation by two chambers, the one of peers, and the other of deputies. The chamber of peers consists of 36 members, 8 of whom are chosen by the grand duke, and 1 by each of the 2 universities; the remaining members are, the Roman Catholic archbishop of Freiburg, a Protestant prelate, and the principal nobility. The chamber of deputies has 64 members, elected by all the male citizens who have attained their 25th year. Each member must be at least 30 years of age, and is elected for 8 years; one-fourth of the members going out every 2 years. During the revolu478 BADEN

tionary period of 1848–1850, the political institutions of Baden were attacked by the ultrarepublican leaders, Hecker, Struve, &c., and by the moderate republicans led by Brentano, Eichfeld, &c., and Baden was thrown into the greatest excitement and confusion, until the assistance of Prussia led, in 1850, to the defeat of the republicans, and the return of the old order of things. Baden occupies the seventh rank in the Germanic confederation, and furnishes of its army of 15,000 men (composed of engineers, &c., 186; infantry, 11,180; cavalry, 1,870; artillery, 1,764), a contingent of 10,000 men to the federal forces. It has 3 votes in the full diet, and one in the minor assembly. By the budget of 1856 and 1857, the clear united revenue for these two years amounted to 20,965,498 florins. The public debt in 1856 was 75,248,188 florins, of which 40,580,493 florins was a loan contracted for the construction of railways. The distribution of the surface of the duchy is as follows:

•	Acres	Per cen
Arable	1.476.626	or 84.5
Meadow	406,618	9.6
Pasture	225,759	5.8
Vineyard	6064	1.6
Gardens		0.9
Woods & forests		80.5
Quarries, gravel, & clay pits	102	0.0
Waste land	21.214	0.5
Buildings, roads, & waters		16.5
	4.214.840	100.0
	To 1	100.0

In the valleys and plains the soil yields most luxuriant crops of wheat, maize, barley, beans, potatoes, flax, hemp, and tobacco; and even in the mountainous districts, rye, wheat, and oats are extensively cultivated. The extensive vineyards produce excellent wines, and the finest fruits are in the greatest abundance. The manufactures are chiefly confined to iron and hardware, and the spinning and weaving of cotton. The Black Forest is distinguished for manufactures of wooden ornaments and toys, watches, wooden clocks, musical boxes, organs, and basket work. St. Blasien is an organs, and basket work. St. Blasien is an important sent of ribbon and cotton manufacture. The fabrication of jewelry and tobacco, and cigars, occupies the next rank in importance. The chicory, paper, and cloth tures, the tanneries and broweries nufacable. Since the union of in 1835, over 60 new i Since the union of established, giving occu and producing 3,300,000 ... are now altogether about thriving in Baden, employ and yielding a yearly product on 14, efforins. The mineral productions are 7 gold, 600 mark silver, 900 cwt. copper. lead, 1,200 smoothing-iron, 173,770 manganese, 150 cobalt, 300,000 kites 30,000 coals. There are extensive go salt works at Durrheim and Rappern. most excellent iron mines: and Kandern. Gold wasn sively carried on along the

practised. The mineral springs of I very numerous, as Baden-Baden, Be Antogast, Griesbach, Freirsbach, &c. 1 ports of Baden are wine, timber, hu hemp, tobacco, fruits, oil, salt, mand articles, &c., and exceed \$50,000,000 ps The principal imports are colonial southern fruits, medicines, horses, wed silk goods, iron, steel, and varies as luxury. The currency is the 24 Gall 60 kreutzers to the florin or gulden. The and measures are according to the decimal There are 2 universities, one Prote Heidelberg, founded in 1386, and one at Freiburg, founded in 1457. 6 lyceums, 5 gymnasiums, 4 normal 19 higher and 7 Latin schools, best 19 Ingher and 7 Latin schools, bear 2,000 common schools established the the country. At Pforzheim is an if for the deaf and dumb, and at Free for the blind. The Carlsruhe personal with a staff of 41 teachers and dumb, and at the carlsruhe personal contact the country and dumb and the carlsruhe personal contact the carls and dumb and the carlsruhe personal contact the carlsruhe and the carlsruhe personal carls and the carlsruhe personal carlsruhe dents, established about 1932, is one in Germany. The preparatory course over 3 years, and includes French history, mathematics, drawing, chem chanics, mineralogy, geology, &c. 1 courses are engineering, architectum courses are engineering, architectum chemistry, mechanics, commerce, and service; and extend over from 1 t About 67 per cent, of the popular grand duchy of Baden are Roman C per cent. are Protestants, and the per cent. are Protestants, and the plews, with a small sprinkling of Man BADEN, or BAADEN. I. A bathing about 3,200 inhabitants, on the river!

BADEN, OF BADEN.

BADEN, OF BADEN.

A better about 3,200 inhabitants, on the river in the Austrian province of the low the circle of the Wiener Wald, with from Vienna, and the summer record Austrian archdukes. Baden has 12 w supplied with water from a hot spri town, founded by the Romans; pos 800, in the Swiss canton of Aarg Limmat, a little river which is cover magnificent bridge. Here too are 1 springs (117° F.), which make the favorite summer resort of the neighbours. The springs were well known the principal tons. The springs were well known the principal tons and the city now standard of the favorite summer resort of the neighbours and the city now standard to the favorite summer resort of the neighbours which the city now standard to the favorite summer resort of the neighbours which the city now standard to the favorite summer resort of the neighbours which the city now standard to the favorite summer resort of the neighbours which is the favorite summer resort of the neighbours which is the standard of the summer resort of the neighbours which is the standard of the summer resort of the neighbours which is the summer res

rahip in Denmark by his manuals of ca, by his Latin-Danish and Danish-tionary, and by his Danish grammar, the best extant. He was the first to n the Danish language, and gave a spulse to the formation of a sound set in his country by establishing in ritical journal (Kritiske Journal). He af from 1793 to 1801 a journal of ersity of Copenhagen. He translatannotated various writings, includannotated various writings, includce, Tacitus, and other classic auorkel, son of the preceding, bornicksberg, in Seeland, July 27, 1765,
fame as an archeologist. From 1794
ne officiated as professor of philosophy
oric at the university of Kiel, and
1823, as secretary of the academy of
at Copenhagen. He held an opinion
nee to the unitness of Scandinavian
y for application to statuary, which for application to statuary, which him in many controversies.

N-BADEN, the most celebrated water-

N-BADEN, the most celebrated waterof Germany, with 26 hot springs,
in temperature from 115° to 156°
water being conveyed through the
pipes to supply the different baths,
gs burst out of the rocks at the foot
stle terrace, and were well known to
ans, who planted a small colony near
they called Civitas Aurelia Aquensis.
important spring is the Ursprung,
lds in 24 hours 7,345,400 cubic inches
Its specific gravity is 1.030. A pint

Its specific gravity is 1.030. A pint ter containing 7,392 grains, contains matter, 16 grs. of which consist of salt, 64 grs. of sulphate, muriate, and of lime, and the remainder of a small magnesia and of traces of iron, with

f a cubic inch of carbonic acid gas in

The water is perfectly clear, has a

mal smell, is somewhat saltish, and

nk, as it issues from the spring, tastes

h like weak broth. It has a whole
set upon all kinds of dyspepsia, menrefulous, rheumatic diseases, the gout, town of Baden has, with the surrounds, about 6,000 inhabitants, belongs to a Rhine circle of the grand duchy of id is delightfully situated on the Oos, y of the Black Forest, about 20 miles of Carlsruhe, connected with the and Basel railway. The little town not without historical interest. For it was the residence of the margraves.

The picturesque ruins of their old

wn the summit of the Schlossberg. geons, supposed to be of Roman origin, ted to have been in the middle ages of the Vehmic courts. The rock, from Dreprung bursts out, is still covered man ruins. Baden has a theatre, nd reading room, excellent hotels, and accessories of a fashionable watering here is always a brilliant crowd of visitors in July and August, when the season is

at its zenith.
BADEN-BADEN, Ludwig Wilhelm I., margrave of, a German general, born at Paris, April 8, 1655, died at Rastadt, Jan. 4, 1707. Louis XIV. was his godfather. He served first under Montecucculi against Turenne, and then under the duke of Lorraine. At the siege of Vienna by the Turks, in 1683, he threw his forces into the city, and then by a brilliant sally effected a junction with King Sobieski and the duke of Lorraine, who had come for its relief. In 1689, he defeated the Turks at Nissa, and in 1691, at salankement. He took also an active part in the war against France, in 1698, and after the death of Sobieski, in 1697, aspired to the crown of Poland; but the elector of Saxony was preferred to him. He again commanded in the campaign of 1702, and took Landau, and in 1703 he was defeated by Villars, at Friedlingen and Hochstadt. He signalized his talent for fortifications by building the famous lines of Stollhofen.

BADENOCH, a district of Scotland, county of Inverness, about 33 miles long and 27 wide. Chiefly a mountainous district, and originally

Chiefly a mountainous district, and originally covered with dense forests, whence the name, which signifies "bushy."

BADENWEILER, a village of Baden, near Mulheim, celebrated for its alkaline thermal springs and baths. Very perfect remains of Roman baths are to be seen in the vicinity.

BADGER (meles, Cuv.), a carnivorous planti-ade quadruped of the order mammalia. The grade quadruped of the order mammana. Ine badger was originally classified with the bears, raccoons, and coatis by Linnæus, but has been, by more recent naturalists, very properly erected into a distinct order. There is nothing particular in the incisors or canine teeth of the badgers, but they are distinguished by their grinders. They have 4 false molars in the upper, and 8 in the under jaw, 2 and 4 on each side, respectively, followed by a carnassier and a single tuberculous lowed by a carnassier and a single tuberculous tooth, of large size. The whole system is better adapted for grinding and bruising vegetables than for cutting and tearing flesh; and, consequently, the badgers are the least carnivorous of the family to which they belong, with the single exception of the bears. The principal character of the feet of the badger consists in their having 5 toes, before and behind, deeply buried in the flesh, and provided with poweruneir naving o toes, before and behind, deeply buried in the flesh, and provided with powerful, compressed claws, adapted for burrowing in the earth, or digging for roots, which are their principal food. The body is long, flat, and compressed; the head small and flat, with an elemented grount, the less study and proven the less study and the less study and the less study and the less study and the less study are the less study and the less study and the less study are the less study and the less study and the less study and the less study are the less study are the less study and the less study are the less study and the less study are the less stu elongated snout; the legs sturdy and powerful; the tail short. Below the anus there is a slit, from which exudes a very fœtid, oleaginous matter, similar in character, though not in odor, to that of the civets and genets. The badgers are inoffensive, timid, nocturnal animals, sleeping during the day in their burrows, which are curiously constructed, with a single entrance, but with many different chambers within, termi-nating in a circular apartment, well lined with

of a hog, and its slender, naked tail. in form, somewhat resembles that of and when attacked it sits erect, like ial, a and seems to possess a similar it, in its arms and claws, which nidable. In color and the nature ormidable. In color and the nature it closely resembles the European , it closely resembles the European The markings of the head are exact-to that of the English badger, but its white, and the black bands from the the car, instead of meeting at the rele the white of the throat forming gorget.

ER, GEORGE E., an American states-at Newbern, N. C., in 1795, graduale college, and commenced the pracr at Raleigh, where he early became hed for solidity and strength in his . He was elected to the legislature ive state in 1816, and served as judge

In 1841 he became secreto 1825. e navy in the cabinet of Pres. Harri-

e navy in the cabinet of Pres. Harrient out of office on the veto of the 2d by Pres. Tyler. In 1846 he was elect-U. S. senate, to fill a vacancy, and in as reelected to the same body for a In 1853 he was nominated by Pres. a judge of the U. S. supreme court, nate did not confirm the nomination. R. Joseph, an American clergyman, of the earliest missionaries to the orth-west of the Ohio river, born

of the earliest missionaries to the orth-west of the Ohio river, born 1757, at Wilbraham, Mass., died May He received his early instruction m his parents, and at the age of 18, revolutionary army. He remained for 4 years, and then having saved a of money, determined to obtain an and engage in the Christian ministry. and engage in the Christian ministry. his expenses at first by manual labor, gentered Yale college in 1781, he himself and his scholarship by alstudying and teaching. He remained in Connecticut after going through f professional study, and in 1800 was y the missionary society of that state e unsettled parts of Ohio. He was he most toiling and patient pioneer rage country. To pass from settle-stilement, often more than a day's part, through a country where there roads, and across rivers without id to tie himself up into trees by he might sleep and not fall a prey such was his mode of life for above During the war of 1812, he was ap-Gen. Harrison chaplain to the army trict, and his knowledge of the coungreat service to that commander-in-it he resumed his missionary funche close of the war, and continued 835, when he retired and lived with daughter. He was cherished as a

Gen. Harrison, and during the latter is life received a pension from the stes.

BADIA Y LEBLICH, Domingo, a famous oriental traveller, better known as Ali Bey, was born at Biscay, in Spain, in 1776, died at Aleppo in 1819. He made himself familiar with the Arabic language, and with oriental manners, with a view to travelling in the manners, with a view to travelling in the East; and being employed as a political agent of the French government in that region, underwent circumcision, and in the disguise of a Mussulman visited Egypt, Arabia, and Syria. His travels, under the title of Voyage d'Ali Bey en Asie et en Afrique, appeared in 1814, and have been translated into English.

BADIUS, Jodocus or Josse, sometimes called Ascensius, from his birth-place, the village of Asche, near Brussels, an eminent printer at Paris, also the author of a life of Thomas & Kempis, a satire on the follies of women, enti-

Kempis, a satire on the follies of women, entitied Navicula Stultarum Mulierum, and other works. He was born in 1462, and died in 1535. His printing house was famous under the name of Prelum Ascensianum. The notes

the name of Pretum Ascensianum. The nows to several classic authors whose works he printed, were furnished by himself.

BADONG, a principality of the island of Bali, comprising the southern peninsula, known on Dutch charts as Tafel Hoek, and the small island Pulo Serangan; population in 1845, 130,000. Its chief ports are Tuban and Pantis Timor. It has considerable trade in rice, bullocks, tallow sanan-wood, and safflower, with Australian to several classics. tallow, sapan-wood, and safflower, with Australia, Mauritius, Singapore, and China. Large numbers of American whalers resort to it for supplies; as many as 17 have been seen in Pantie Timor at one time. Mt. Agung, 12,875 feet high, is in this province. The capital is also called Badong.

BADOOR, or BHUGWAR, the chief river of Beloochistan. After passing out of that country, it assumes the name of Dooster, and taking a S. W. course, empties itself into the Ara-

try, it assumes the name of Dooster, and taking a S. W. course, empties itself into the Arabian sea in lat. 25° 15' N., long. 61° 50' E. BAENA, a town of Spain, in the province of Cordova, 24 miles S. E. of Cordova, on the Marbello. Pop. 12,944. Grain and oil are the chief articles of trade, and are exported to Malaga. The site of the old Roman town (Baniana) is still distinguishable.

BAER KARL ERNST YON. a Russian natural-

BAER, KARL ERNST VON, a Russian natural-t, born in Esthonia, Feb. 17, 1792. He availed himself of the teachers and opportuni availed himself of the teachers and opportunities which his country offered in the study of the natural sciences, especially of botany, and in 1813 went to Germany, where he pursued most diligently the study of comparative anatomy. In 1819, he became professor of zoology in the university of Königsberg, and founded the zoological museum in that town. In 1837, he repaired to St. Patersburg, became interest. he repaired to St. Petersburg, became interested in the polar regions, and undertook a journey of investigation to the north. He succeeded in ascending but little beyond Archangel, but left valuable descriptions of the plants and animals of the regions through which he passed. The writings of Baer are distinhe guished for their philosophical depth, and also

FIN'S, or Bylor's Bay, an extensive inland sea on the north-eastern coast of America, communicating with the Atby Davis strait. It extends about 950 rom south-east to north-west, and has an e width of 280 miles. It was named in of William Baffin, an English navigator 1st explored it in company with Captain in 1616. It was visited by Captain Ross 3, by Captain Parry in 1819, by Ingleield 22, who established the existence of a deconnecting it with the great Polar sea, 1 McClure, in 1850-'3, who was the first 1 from Behring strait to Baffin's bay. asts are rocky and precipitous, rising in places to the height of 1,000 feet, and ting a vast number of lofty peaks, so r in shape that the beholder can scarcely them the unaided work of nature. Inable sounds and creeks, most of which et to be explored, open on each side of 1. Black whales, of large size, and seals, ptured here by British vessels. The of the water is often great, but very 1. As far as ascertained, it varies from

1,050 fathoms.

FO, BAFFO THE PURE, as she was called, stian woman of remarkable talent and, who was captured, in 1580, by corsairs, and the way with her father from Venice to, and brought to Constantinople, where same the slave and afterward the sultana urath III., over whom she exercised exnary influence, which his mother attribusorcery. To sift the matter, Amurath of ar as to subject the female attendants to to the torture, in order to extract from he alleged secret of her fascination. But poor women could confess nothing, the acy of the sultana's influence was no questioned. After the death of the she became the adviser of her son, amed III., and her influence did not wane 1608, when her grandson Achmet conher to the old seraglio, where she died ted the same year.

AGEN, a river in the province of Gover.

FAGEN, a river in the province of Goyaz, rises in the Serra Viadeira, and falls into ranhão about 20 miles above where that joins with the Tocantins. Length 160

HAUDÆ, or BAGAUDI, a body of rural insurrectionists, who revolted about A. D. saded by one Victoria, called by the sol-Mother of Legions. They besieged and utun. Claudius temporarily quelled them, relian by a remission of their taxes in , and by granting them a general ammade peace with them. Under Diocle... D. 280, they rose again, and massacred masters, ravaged and desolated with fire word multitudes of cities and villages. tian, himself engaged in putting down raians and barbarians of the lower Dannat Maximian against the Bagaudæ, who under 2 Christian leaders, Ælianus and

Amandus, who assumed the title of emperor. The coins of these Bagaudian emperors are still extant. Maximian prosecuted his warlike operations with so much vigor, that although the Bagaudæ were superior in numbers, they were soon compelled to capitulate, though not until they had retreated to an island formed by the confluence of the Marne and Seine, and made a desperate stand for the victory. The 2 emperors died in battle. The place of this sanguinary contest was long known as the Fosses des Bagaudes. From this period, the Bagaudæ may be considered as gradually transforming their activity into a kind of brigandage, which infested the forests and fastnesses of Gaul until the end of the western empire. Under Carinus, the oppressions were renewed, and the accession of Diocletian furnished the occasion for the second insurrection of the Bagaudæ, of which an account has already been given above.

BAGDAD, a city and pashalic of modern Turkey. The city is situated on the Tigris, which is here about 700 feet wide. Lat. 38° 20′ N., long. 44° 24′ E.; pop. about 50,000, which was considerably larger until the great flood and the plague of 1831. The city was founded A. D. 762, by the Caliph Al Mansoor, and became the favorite residence of the Abbasside caliphs. The great Haroun al Rashid enlarged and beautified it, and his fame and that of his son made it a centre of civilization and refinement, and the chosen seat of Arabic science and literature. In 1258, it fell under the conquering arms of Hulaku; from which time it changed rulers several times, until Amurath IV., who reduced it permanently under Turkish dominion. As a frontier city of the empire, it has experienced the vicissitudes of war in the constant quarrels between the Turks and Persians. A government similar to that of the Egyptian Manelukes was established for nearly a century, owing a nominal allegiance only to the sultan, but in 1831, Sultan Mohammed put an end to it, and after a siege of three months, he took the city, and restored the right of the Sublime Porte to appoint the pashas of the province. The commercial importance of Bagdad has fallen to a very low ebb. The insecurity of the traffic from the constant brigandage of the Bedouins, which the governors are not strong enough to put down, and the decay of the city itself, are the chief causes. The manufactures are few, leather is perhaps the most important.—The pashalic of Bagdad is one of the most important in the Turkish empire. On the energy and abilities of the pasha of this province depends the conservation of the frontier against the Persians. It contains an area of about 100,000 sq. m., comprehending parts of Koordistan and Khusistan, the provinces of Aljesiras and Irak Arabi. It is nearly coextensive with Mesopotamia, with Assyria proper, Babylonia, and Chaldea. It is traversed by the great rivers Euphrates and Tigris, with their tributaries, the great and little Zab (Zabatas and C

of Mosul and Bagdad, it contains the ruins of Seleucia and Ctesiphon, of Babylon and Nineveh. Once by the untiring labor of man and by a perfect system of irrigation, the soil was the garden of the world. The neglect of centuries has converted its teeming plains into deserts and marshes inhabited by a scanty population, not equal to that of the smallest of its ancient

BAGE

BAGE, ROBERT, English novelist, born at Derby in 1728, died in Tamworth, 1801. He was a paper-maker, in which trade the continuation of the little trade of the little ued for the greater part of his life. His princi-pal works are "Mount Kenneth," "Bartram Downs," and the "Fair Syrian." Sir Walter Scott recommended that he should be included in Ballantyne's "Novelist's Library," and even wrote his life for that work, out of the scantiest

of Bannow bay, county of Wexford, Ireland, noted as the spot where Earl Strongbow land-

BAGFORD, JOHN, an English antiquary, born in London, 1651, where he died, May 15, 1716. In the early part of his life he supported himself as a shoemaker, but subsequently he conceived a taste for antiquarian researches, and succeeded in collecting many valuable old books, &c., for the bishop of Ely's library, and in accumulating a vast number of antiquities, which were afterward purchased for that of the earl of Oxford. By the kindness of his patron, the

of Oxford. By the kindness of his patron, the bishop of Ely, he was admitted into the charterhouse, where he was buried.

BAGGAGE, is the term used in our language for those necessaries of an army, such as tents, clothing, and the like, which are carried on carts, pack-horses, or mules. In the last century the officers' baggage became a formidable en-cumbrance to the movements of the army. The baggage which Louis XV. carried with him in his campaign in the Netherlands was unprecedented. Among other things there was a per-fect stage apparatus for the exhibition of court theatricals. Every high officer brought his mistress along with him, who, of course, needed large establishment of l own. This era in the] the culmination of the ry of expeditionary on ion would never allow any toing matter of baggage. French army in the late of the Black sea, the tem constructed that they could be and distributed in the knapsacks of on march. This was the first occatents were separated from the bagg army and carried about as part of

equipment.—In America the trunks, carps and bandboxes of travellers, are called b BAGGE, JOHAN, a Swedish admiral 16th century, who rendered services to his country, espension in the available to Russian inc. he expelled the Russian invaan schievement which par

treaty of 40 years peace between the 2 tries. He increased his fame by success peditions against the Hanse towns, and a Denmark, but was doomed to perish i dungeons of his Danish enemies, who had tured him in 1564.

BAGGER. I. JOHANN, a Danish per oriental scholar, born at the viliage of L in Holstein, in 1646, died at Copenhagen in After he was made bishop of the Luther gregation of Copenhagen he became a opponent of the Calvinista, with whose p opinions he had no sympathy. This led | 1684, to dissuade the Danish government granting an asylum to the French Hag II. Carl Christian, a Danish poet, but 10, 1807, died Oct. 25, 1846. He wrote edy, a small collection of poetry, a fairy verse, and a tale entitled Min Broders or "My Brother's Life." A German trust of this story appeared in 1835 at Leipsi was poor, proud, and sensitive, and criticism preyed upon his mind and sensitive his death. his death

BAGGESEN, JENS OF IMMANUEL and German poet, born at Corsor, in a Feb. 15, 1764, died in Hamburg. Oct. 1 While travelling abroad he married a daughter of the celebrated Haller, an personally acquainted with many of the men of Germany. At the same time brought into contact with the storm which swept over France toward the di-last century. The most remarkable of last century. The most remarkable of ings is his Labyrinthen, a species of phy (in Danish), in which he give descriptions of his adventurous life. many lyrical poems in German—which he handled with the same finative tongue. A collection of the at Hamburg in 1808, and at Amsterd His best German work is his thenais, of which a French transle in 1810. He endeavored for som tate Klopstock, in his lofty, and Wisher humorous conceptions, and afterward a satirist for the purpose of opposing the cism of Fichte and Schelling.

of his Danish writings appe vols., at Copenhagen.

BAGLEN, or BAGALRES, a II
m the island of Java, near the
roleanic, but very fertile, and
and sugar in abundance. Pop. i
Porworedjo.

PARTICIPATION BAGLIONE, GIOVANNE orn in Bome in-lied in the middle was more distinguis penius, although he o colors, and in light a zed by the popes cointed president of

e in St. Peter's of that saint raising Tabiom the dead. He became the biographer artists who flourished at Rome from 1572 42, in which there are not less than 81 irs. A new edition of this work appeared

ples in 1733, with the addition of the lives glione and of Salvator Rosa. GLIONI, the name of a historical family ngis in Italy, under the nominal protecirst of the emperor, and afterward of the
Perugia contained 2 parties—an aristoand a democratic one. The Baglioni be-

and a democratic one. The Baglioni be-to the former.—In the 12th century 1100 Baglioni was appointed imperial of Perugia by Frederic Barbarosa, who
Baglioni his relative, as coming, like himom the ducal house of Swabia. In 1398, ragian gentlemen, and among them 2 Bag-were killed in a street fight by the poputhe whole aristocratic party was expelled he city.--Braccio Baglioni, in the service ope, defeated Francesco Sforza near Lodi, pope, defeated Francesco Sforza near Lodi, 58, and was made lord of Spello by Six-C-GIAN PAOLO BAGLIONI began life as a ttiere; then availing himself of the dissention is native state he obtained suprement in the state he obtained suprements. over it, and made alliance with Pandolfo sci, ruler of Sienna. He was driven out of ia by Cæsar Borgia in 1502. Returning 8, after the death of Alexander VI., he anished again, in 1506, by Julius II. He intered the service of the Venezus of Cambrar. He recurred his the league of Cambray. He resumed his sition as ruler of Perugia in 1513. Here sted so much scandal that Leo X., who t first winked at his usurpation, summoned Rome, threw him into the castle of St. o, had him tried, and beheaded at Rome 20.—MALATESTA and ORAZIO, his sons, sred possession of Perugia after the death Orazio turned condottiere in the service

7831.—In the 16th century ASTORRE BAGLI-rved Charles V. in Italy and on the coast rie, and rose high in the favor of Pope III., who restored to him his paternal es-He then entered into the Venetian sernd was governor of Famagosta in Cyprus,
the Turks besieged it in 1570. After the Turks besieged it in 1570. ve defence he was obliged to capitulate, on tion of being sent home to Venice with his on. But Mustapha Pasha, disregarding rms, caused Baglioni and the other Venefficers to be beheaded.

mce, and was killed in the Neapolitan ex-

on, 1528. Malatesta remained in Perugia 1529, when he was driven out by the pa-d imperial troops. He died at Perugia in

GLIVI, GEORGIO, an eminent Italian phy-, born at Ragusa in Sept. 1668, died in 1, 1707. He was professor of medicine natomy at Rome. He was a most laboriudent and an eloquent teacher. He deagainst systems and theories, and in favor prejudiced observation. However, he ed the system of solidism in opposition to revious notion that the fluids of the body

are first attacked by disease. He was opposed to much giving of drugs. He died from the fato much giving of drugs. He died from the fa-tigue of excessive labor, leaving many treatises, frequently republished under the title of *Opera*

frequently republished under the title of Opera Omnia Medico-Practica.

BAGMUTTY, a river of Nepaul, which, after a course of 285 miles, flows into the Ganges, near the town of Monghyr.

BAGNACAVALLO, an Italian painter, whose real name was Bartolommeo Ramenghi, but who was called occasionally Il Bologna, and generally Bagnacavallo, after the name of the small village near Bologna where he was born, in 1484. He died at Bologna in 1542. He was a pupil of Raphael. He was looked upon by his contemporaries as the first artist of the Bolognese school, and this verdict artist of the Bolognese school, and this verdict is confirmed by posterity.
BAGNERES - DE - BIGORRE,

France, department of Hautes Pyrénées, on the left bank of the Adour, at the entrance of the valley of Campan. Its hot mineral springs, which were resorted to by the Romans, have given the place celebrity and importance. During the summer and autumn it is crowded with

ing the summer and autumn it is crowded with invalids and pleasure-hunters from most parts of France, and even Europe. Pop. 8,448.

BAGNERES-DE-LUCHON, a watering-place in France, department of Haute Garonne, situated in the beautiful valley from which it derives its surname, at the foot of the Pyrénées, within about 5 miles of the Spanish frontier.

It has 9 mineral apprings. The permanent populations of the statement of the spanish frontier. It has 9 mineral springs. The permanent population is nearly 3,000, but in winter the climate is so severe that the town is deserted, not only

is so severe that the town is deserted, not only by strangers, but even by a portion of its wealthy inhabitants. Copper-mines and slate-quarries are found in the neighborhood.

BAGNES-LE-CHABLE, a parish and village of Switzerland (pop. 9,000), in the valley of Bagnes, on the Dranse. The Val-de-Bagnes was twice inundated during the 16th century. In 1818 the Dranse having been blocked up by the ice, expanded into a lake half a league in length, which, after a time, burst its barriers and poured down upon the village; 400 cottages were carried away and 34 lives lost.

BAGNIO, a word derived from the Italian bagno, which means a bath or a bathing-house. The criminals of Constantinople were formerly confined in some abandoned bath-houses, or, as the Italians would call them, bagnos. Hence, bagnio has become a generic term in the Levant for places where criminals or slaves are confined. Bagnios exist in Algiers, Barbary, and all along the northern coast of Africa. In France the word bagne has been used for a prison-house where public works are carried on. See GAL-

BAGNOLES, a hamlet of France, in the department of Orne, in a solitary valley 13 miles 8. S. E. from Domfront. This village, celebrated for its baths and mineral springs, was built in the 17th century, but has been lately much improved and adorned with fine buildings and promenades. A military hospital was

employed under Suwaroff in e was employed under Suwaroff in having been made a colonel he took. the storming of Otchakoff, and in ught against the Poles. He also served Suwaroff against the French in Italy, ng with success against Moreau and ar. He commanded the vanguard at rody battle of the Trebia, and distinhimself at Genoa and in Switzerland. 5, under Kutusoff, he commanded the rd in the Austro-Russian campaign; at he successfully resisted Murat and Lanhe successfully resisted Murat and Lannose forces outnumbered his. Having reated a lieutenant-general, he com-I the vanguard of the Austrian army terlitz, under Prince Lichtenstein. In usian campaign of 1807, his resistance to battle of Eylau so terrible that even an shuddered at its bloody results. The aid of him at the battle of Friedland. he overran Finland, Western Bothnia, Aland isles; in 1809 he fought at Silisd destroyed the Turkish force brought a Adrianople to relieve that fortress. he fought an unsuccessful battle w t at Mohileff, but succeeded, neverthe-joining the Russian main army. He joining the Russian main army. He stally wounded at the terrible battle of t or Borodino, Sept. 7, 1812, just a before he died. He married in 1810 of great beauty and wealth from the Skawronsky, to which Catharine I., ? Peter the Great, belonged. At the sof Vienna she was one of the leaders on and of gallantry. She subsequently n and of gallantry. She subsequently Paris, where her house was remarkable endor, elegance, and luxury. In Jan. se married secretly Col. Caradoc, then ted for his beauty and extravagance, w known as Lord Howden, without, s., taking his name. Subsequently, howe marriage was publicly acknowledged.

AMAS, a chain of islands, belong-Great Britain, extending from the N. St. Domingo to the eastern coast ida, in a north-westerly direction, and otween lat. 21° and 27° 30′ N. and 0° 30′ and 79° 5′ W. They are about number, of which only 12 or 14 are inocky islets. Most of the islands of the are situated on the Bahamas Banks. re, as a general thing, very flat, long, row, formed of calcareous rock, with a sandy soil; though without running there are numerous springs, and the thus obtained, enables them to prowit in abundance. Maize, yams, sweet a, oranges, limes, lemons, &c., are among oducts of the islands; there are also valuable woods, as mahogany, fustic, vite, &c.; in the more southerly islands e salt-ponds, furnishing the most importheir exports. The climate is salubrious, rticularly well adapted to consumptive . Nassau is much resorted to by vale-

tudinarians of this class, from the United States. St. Salvador, one of the Bahamas, was the first land discovered by Columbus in 1492. They were then inhabited by a gentle and inoffensive race of Indians, whom the Spaniards carried away and forced to labor in the mines of St. Domingo, and the pearl fisheries of Cumana. They thenceforth remained unoccupied until 1629, when the English settled them; they were dispossessed by the Spaniards, and the islands repeatedly changed masters, being finally annexed permanently to the British empire ly annexed permanently to the British empire in 1783. At the close of the revolutionary war, many of the tories settled here. The war, many of the tories settled here. The value of the sponge exported in 1851, was £14,000; of fruit, £12,600; and of salt, £16,500. The revenue for the year was £26,105; the expenditure, £25,068. The separation of the Turks islands, in 1848, considerably diminished the receipts of customs, they being the most productive of the salt islands. The number of The number of vessels clearing from the several harbors of the vessels clearing from the several harbors of the group in 1851, was 373, registering 36,914 tons; while 363 entered, registering 36,038 tons. There are 9 custom-houses. The seat of government is Nassau, in the island of New Providence. There are 9 Episcopal churches, beside 21 chapels; a Presbyterian church; 1 Baptist, and 4 Methodist chapels. There are 21 public schools, attended by 1,857 pupils. The population of the islands, in 1852 was 28,092. The most important of them are Grand Bahama, Great and Little Abaco, Andros Isl-Bahama, Great and Little Abaco, Andros Islands, New Providence, Eleuthera, San Salvador, Rum Cay, Great Exuma, Watling Island, Long Island, Crooked Island, Atwood's Key, and Great and Little Inagua. Wrecking or stitutes an important branch of industry. and Great and Little Inagua. Wrecking constitutes an important branch of industry. The wreckers are licensed by the government, for the double purpose of affording assistance to vessels in distress, and of saving life and property from those that are lost. They receive a

erty from those that are lost. They receive a percentage of the value of the property recovered, as salvage. The amount of the sale of property so preserved, was, in 1852, £46,515.

BAHAR, BETHAR, or VIHAR, an extensive province of British India, now a part of the presidency of Bengal; pop. about 12,000,000. It was ceded to the British by the Mogul shah Alum in 1765, on condition of an annual payment of 26 lacs of rupees. It is intersected by the Ganges, and produces much opium. Gaya, the birthplace of Buddha, and the scene of one of Vishnu's incarnations, is in the province, and is visited by vast numbers of pilgrims. The present capital is Patna, but there is a city of Bahar, a place of no importance now, although possibly once the capital of the province.

BAHARI (the sea country), the Arabic

BAHARI (the sea country), the Arabic name of lower Egypt, or the region of the Delta of the Nile.

BAHAWALPOOR, a district of the Punjanb,

so called from Bahawal Khan, an Afghan chief, who had created an independent sovereignty here, of which his son was deprived by Runjeet Singh. The town of Bahawalpoor is on the

tion of the shore, is believed to temple of Venus. It is of beautins, externally octagonal, but circund about 90 feet in diameter. The

has evidently undergone great the time of the Romans, and apsunk several feet below its ancient

), or Baird, Ottavio Antonio, an nary, born about 1690, died about ras appointed by Charles III., of scribe the ruins of Herculaneum, exhumed. Baiardo was so long in ntroduction, that the king took the

and intrusted it to a committee of

SAYAS, BYASS, a town of Syria, 65 W. of Aleppo, situated where a probably the ancient Issus) enters iskanderoon. It has a harbor for Near it, on the north, are the ruins it town Issus, and 14 miles southplace where was fought the second e in which Darius was defeated by in Great.

is Great.

LY, a valley in the department renees. It contains copper mines worked for many years, but up about the middle of the 18th is drained by the Nive, and end villages, the most important of Etienne-de-Baigorry.

a great lake in the government of Siberia, situated between lat. 51° 30′ N., and long. 108° and 110° E.—shaped, 366 miles in length from E., and from 20 to 58 miles in ight above the sea-level, 1,419 feet. Angara, Selenga, Bargoozeen, and treams, discharge their waters into only outlet, the lower Angara, is equate to the removal of an equal that received. The depth of the rom 22 to upward of 300 fathoms, ded by the Baikalean mountains, a litai range. It forms a part of the trade between China and Russia, v. to May is traversed on the ice. Is were introduced in 1844. The regon fishery is valuable, and herso taken in great numbers. The khon, near the north coast, is 32

ZAN MOUNTAINS, a mass of Siberia, extending in 3 great ranges in the Egtag Altai, and having Lake argest of mountain lakes, embedded re. They rise with a steep ascent d fantastic peaks from the shore of also have a precipitous continuaits surface. Not less than 160 rivers neir sides into the lake, which diswaters only by the lower Angara. eaks through the surrounding wall, and flowing northward, becomes tributary of the Yenesei. Many

parts of the Baikalean mountains indicate volcanic agency. Volcanic rocks and thermal springs abound, and the more regular of the geologic strata show violent contortion, and upheaval; earthquakes, too, are frequent throughout the neighboring country. The mineral riches of these mountains are considerable, embracing beside gold and silver, such gems as the

carnelian, onyx, and amethyst.

BAIL (law Fr. bailler, to deliver). The literal meaning of the word is delivery, and in law it is used to signify the delivery of the person out of the hands of the sheriff or other officer after arrest into the custody of one or more sureties, who undertake to be responsible for the appearance of the party thus delivered when final judgment shall have been rendered, and process shall have issued thereon to take the body of the defendant in satisfaction. The body of the defendant in satisfaction. The same term was also used to designate the sureties themselves, and this came to be its most common signification. The proceeding by which this delivery was effected was in form by an instrument called a bailpiece signed by the sureties, expressing that the defendant is delivered to bail on the taking of his body to I. S., &c., which bailpiece being filed in court, the party arrested was thereupon discharged, or, as was commonly said, was left at large; but in fact it was only a transfer of the custody from the sheriff to the bail, who might at any time take him and recommit him to the charge of the sheriff, and this was an exoneration from all li-ability, if done at any time before the return of an execution against the person of the defendant. In criminal actions the form of giving bail is by what is called a recognizance, which is an instrument similar to a bond, executed by the party, together with his sureties, by which they bind themselves, under a certain penalty, for the appearance of defendant at court when required. By the English law, in all ac-tions civil or criminal, the defendant was entitled to be bailed, except in cases of felony, that is, crimes punishable capitally. All civil actions were said to be bailable, by which was meant that the party arrested was entitled to be discharged upon giving bail. It will also be understood that arrest was allowed in all civil actions, except in a few excepted cases, as in an action upon a judgment recovered in a case in which bail had been given.—The amount for which bail was given was, in actions for a liquidated indebts, the whole sum claimed; in actions for unliquidated damages, the amount was regulated by an order of a judge.—By various meliorating provisions in this country, arrest in civil actions upon contract is abolished in most of the states, except when there is a charge of fraud in contracting the debt or in evading payment. In actions for tort, that is where a wrongful act is alleged, and damages claimed by reason thereof, arrest is still allowed, the amount for which bail shall be required being fixed by an order of a judge. In very many actions on contract, also, bail is still exacted upon allegations of fraud, which

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ations date back to 1838, and the common vegetable and In 1839, while examining some is attention was arrested by a nich he did not then understand. the diatomaceous plants, and a to his investigations, leading imself with great zeal to the and vegetable organisms, at cluded under the general term, a kindred branch, to the algæ. Stagnant waters, fossil guano, and whatever other guano, and whatever other specimens, were collected and along the principal subjects of e the fossil deposits of Richrsburg in Virginia, the rice th, the dredgings of the coast he line of soundings across the by Lieut. Berryman in reference the telegraphic college. g of the telegraphic cable. of his observations must be zinal, inasmuch as he was enof works on the subject, had in the country, and for many But gradually he ob orator. e works from abroad; and the 7 of his observations not only into the field, but procured andence and verifications of all ondence and verifications of all croscopists and algologists of His "Microscopical Collection" nonument to his industry and han 8,000 objects, fixed upon gued and marked in such a ch one can be readily found; o objects either described by ived directly from other desired. ived directly from other de-nat always possess the highest collection of algo is equally uthentic, consisting of about s, systematically arranged in see collections, together with see collections, together with n botany and microscopy, his fic correspondence, and a large naterial from the localities he bequeathed to the Boston sohistory, where they are now may at any time be consulted ming similar studies. Among ntributions to science must be provements of the microscope ingenious modifications in the mountings of the instrument, ience, science, and encourageith the genius and mechanical are we indebted for the most nents, in many respects, which sade; and his defence of them actions of some foreign writers plete command of the whole nost delicate test objects now covered and introduced by him. undertakings was to construct card, by which to mark the object on the slide so that it might be found again with certainty. many trials in perfecting its measurements and adjustments, he succeeded to his satisfaction. adjustments, he succeeded to his satisfaction. He early began to publish the results of his observations. His published papers are more than 50 in number, most of them very brief but always clearly establishing some definite point—some new contribution to science. are found in Silliman's "Journal of Science in the "Transactions of the Association of Geologists and Naturalists," in the "Smithsonian Contributions to Knowledge," and in the various state geological surveys. Among the more important were: An account of an excursion to Mount Katahdin, in Maine, in 1837; a series of papers on "Infusoria of the family Bacillaries," afterward embodied in a single paper lariæ," afterward embodied in a single paper in the "Transactions of the Association of Geologists and Naturalists" (1843); also, in the same volume, in a paper by Prof. Hitchcock, the identification of the chalk period in Syria, Arabia, Egypt, and America, by the polythalamia found in the sands and rocks of these several regions; his researches on the crystals found in the tissues of plants; the demonstration of the vegetable nature of anthracite coal tion of the vegetable nature of anthracite coal by the exhibition of vegetable duets; descrip-tions of algo and their localities; observations on a new and exceedingly variable animalcule on a new and exceedingly variable animalcule (pamphagus mutabilis); examinations of soundings made by the coast survey, in which he indicated the possibility of determining, in many instances, a ship's place in fogs or darkness, by the objects brought up on the lead; notices of books; and finally his extended catalogues of infragrate forms and recent with decrease. on musoria, tossil and recent, with descriptions and figures, exquisitely drawn by himself, in the "Smithsonian Contributions to Knowledge." Prof. Bailey is entitled to be regarded as the founder of microscopical of infusoria, fossil and recent, with descrip as the founder of microscopical research in America, and his descriptions and collections must ever constitute the basis for all future investigations in the departments he specially explored. He must be ranked with the most distinguished microscopists and algologists of Europe. He was honored with membership by numerous learned societies, and was the president elect for the session of the American association for the advancement of science in 1857.

BAILEY, or BAILY, NATHAN, an English lexicographer and a schoolmaster at Stepney, near London, died in 1742. His most important the school of ant publication was an etymological English dictionary, which became the basis of Dr. John-son's famous work. He was the author also of Dictionarium Domesticum, and of several

school books.

BAILEY, PHILIP JAMES, an English poet, born in Nottingham, April 22, 1816. He was chiefly educated in the schools of his native but studied for a time in the university of Glasgow, where he wrote a successful prize poem upon the theme "Creative Imagination." On leaving Glasgow, in 1833, he chose the legal profession, studied in the office of a solicitor, and in Lincoln's Inn, and was called to the bar BAILLIE 400

ntons in 1512 by Maximilian Sforza, in e for Swiss aid in recovering the duchy a from the troops of the French king, II. In 1802, they were formed into the of Tessin, by Bonaparte, which arant was confirmed by the legitimate ms of Europe in 1814, and by the Hel-LIE, LIE, JOANNA, English dramatic poet, Lanarkshire, Scotland, in 1762, died at ead, near London, Feb. 28, 1851. Her fawantry clergyman, who afterward became ound education. When her brother, thew Baillie, the celebrated physician, ced practice, she and her sister, Agnes, oved to London. A bequest from Dr. Hunter, her maternal uncle, made the ioderately independent, and they took residence at Hampstead, where they d for over 60 years. In 1798, at the a, she published the 1st volume of plays asions, and successive volumes apa 1802, 1811, and 1836. A volume of seous plays appeared in 1804; it con-Highland tragedy called the "Family which Scott (who made her acquaint 1806) had represented at the Edin-leatre early in 1810, with the aid of a by Henry Mackenzie, and an epilogue of splendid costumes, beautiful scenery, slent acting), but was less successful roduced in London in 1815. "De;" ran for 11 nights at Covent Garden Mrs. Siddons and John Kemble playing Mrs. Siddons and John Kemuse passymag parts. At a later period Kean prohis play, but it failed. Her plays, uez," and "The Separation," were also out in London. Miss Baillie also wrote mullished separately, called "The published separately, called "The und "The Bride." Sir Walter Scott deat her merit as a dramatist was so great revent all attempts at competition on . Lord Byron said "Women (saving Baillie) cannot write tragedy; they t seen enough, nor felt enough of life Yet her dramas met partial and tem-mocess on the stage. Her plays were setical than dramatic, and the under serally weak and light. Her delineation elopment of character were neither nor artistical. Beside ballads, fugitive coasional poems, and songs (many of the Scottish dialect, and humorous), llie published metrical legends of exlie published metrical legends of exaracters, and a prose dissertation, of agth, called "A view of the General the New Testament, regarding the and Dignity of Jesus Christ." Miss who was 89 when she died, literally generations of authors in London. She stly esteemed, and retained her intelaculties to the last. Her poetical works,

Val-Maggia, Bellinzona, Riviera, and una. Most of these were ceded to the

in one large 8vo volume, were finally collected and published in 1850.

BAILLIE, MATTHEW, born Oct. 27, 1761, at the manse of Shotts, Lanarkshire, Scotland, died in London, Sept. 23, 1823. He was son of Dr. Baillie, professor of divinity in the university of Glasgow; elder brother of Joanna Baillie, the poetess; and nephew of William and John Hunter, the eminent anatomists. Having received the rudiments of education at Glasgow, he was sent to London in 1779 under Glasgow, he was sent to London in 1779, under the care of Dr. William Hunter, to whom, 2 years after, he became assistant and demonstrator, visiting Oxford during the terms. In 1788, on the death of his uncle (who bequeathed him his anatomical theatre and the use of his museum for thirty years), Mr. Baillie commenced giving lectures in conjunction with Mr. Cruikshank, the anatomist. In 1789, he took the degree of M. D. at Oxford, and immediately after was made member of the college of physicans in London. In the same year he married Miss Denman, sister of the late chief justice of England. The increase of his practice as a physician, particularly on the retirement of Dr. Pitcairn, compelled him to resign his position as a lecturer in 1799. Soon after, he was called in to join in consultation on the illness of George III., who appointed him one of his physicians in ordinary, and offered to make him a baronet. From that time to the death of the king, Dr. Baillie was principal director of the royal treatment. By the time he was 40, his income was immense,—earned, however, by the sacrifice of leisure, ease, and repose. In one year, during which he said that he had scarcely time to take a regular meal, he received £10,000 in fees. a regular meal, he received £10,000 in fees. Early in 1828 he was compelled, by illness, to retire into the country, and died at his estate (Duntisbourne house, Cirencester, Gloucester, shire) in the following September. His skill as an anatomist, his accuracy in diagnosis, and his knowledge of the qualities and action of medicines, combined to make him a great physician. His published works on the morbid anatomy of the human body, with illustrative engravings, rank very high, and were translated into French, German, and Italian. He bequeathed his medical library and his valuable collection of anatomical preparations to the colcollection of anatomical preparations to the college of physicians, with £600 to keep it in a perfect state of preservation. The pressure of his great practice sometimes rendered him irritable, but after he ceased to visit out-door patients his temper greatly improved. In stature he was below the middle size. He never lost his Scotch dialect. His character as a physician may be summed up in the words he used to say to his own family: "I know better then others perhaps from my knowledge of than others, perhaps, from my knowledge of anatomy, how to discover a disease; but when I have done so, I do not know better how to consoit?"

BAILLIE, ROBERT, a Scotch historian and theologian, born at Glasgow in 1599, died in 1662. He held several offices of importance,

principles applicable to this class of hus it was held in one case reported that an undertaking to keep safely bailee responsible for extraordinary a if he receive no compensation; and led to this that an undertaking to keep ame as undertaking to keep safely, has been exploded. The treatise of un Jones was admired as a work of

has been exploded. The treatise of im Jones was admired as a work of nary genius until the English lawyers nore acquainted with the civil law and with the writings of Pothier, when and that the subject had been treated of

st-named author in a singularly feliciaer, and his work on "Obligations," is cknowledged authority in English and law.

, EDWARD HODGES, an English sculptor,

ristol, March 10, 1788. His father was rver, and one of his figure-heads, atheattention of Flaxman, is said to have om that artist the remark that there living sculptors who could have sur-

The son was destined to commercial and when 14 years old was taken from

d placed in a counting-house. But a clination for the fine arts contrived to self. He made acquaintance with a x modeller, whose processes he at once eff to observe and imitate; and he soon such skill and facility that he ventured, e of 16, to resign his mercantile hopes, namence life as an artist. Before he egular employment, he suddenly marwas soon obliged to leave his wife at hile he himself went to London to upport. Flaxman received him into

Here his progress was rapid. From y of arts and sciences he received medal, and from the royal academy both the gold and silver medals, and 50 guineas; his subject on the latter reing "Hercules restoring Alcestis to "At the age of 25 he produced the Eve at the Fountain;" after which acced to leave the studio of Flaxman, one chief modeller to the firm of Run-Bridges, goldsmiths. Yet Mr. Baily did his highest efforts, and soon produced classical pieces of "Hercules casting to the Sea" and "Apollo discharging to the Sea" and "Apollo discharging to the Sea" and "Apollo discharging to the Trafalgar square. For many years resided in the house once occupied by the artist, one of whose works had given impulse to his genius. Among his later productions, are his "Eve listening to a," "Preparing for the Bath," "The and a colossal statue of Sir Robert

f, Francis, a London broker, born in hor of several valuable works on ansurances, and kindred subjects, and an moter of astronomy in Great Britain. a 1844, having during the last 19 years b given himself almost wholly to the service of the astronomical society and British association.

association.

BAINBRIDGE, Christopher, an English prelate and cardinal, born about the middle of the 15th century, at the village of Hilton, in Westmoreland, died at Rome, July 14, 1514. He became bishop of Durham in 1507, and archbishop of York in 1508. It was attributed to his influence that Henry VIII. took part with the pope against Louis XII., and for so considerable a service he was, in March, 1511, created cardinal of St. Praxede. There is still extant from him a letter to Henry VIII., written upon the occasion of the latter receiving from the pope the title of Most Christian King. He died by poison administered to him while on a visit to Rome by his steward, Rinaldo da Modena, who confessed himself to have been suborned to the act by the bishop of Worcester, then resident in Rome.

BAINBRIDGE, John, an English astronomer, born in 1582 at Ashby de la Zouche, died in 1648. He was educated at Cambridge, and in 1619 published "An Astronomical Description of the late Comet." This work introduced him to Sir Henry Saville, who appointed him professor of astronomy at Oxford. While there, he published valuable editions of some of the most esteemed treatises of the ancient astronomers.

cient astronomers.

BAINBRIDGE, WILLIAM, a commodore in the United States navy, born in Princeton, N. J., May 7, 1774, died in Philadelphia, July 28, 1838. At a very early age he embarked in the merchant service, in which he soon rose to a command, and in 1798, when our difficulties with France rendered the organization of a naval force necessary, he received the commission of lieutenant, and was appointed to the command of the schooner Retaliation. In the month of September of that year, while cruising off Guadeloupe, the Retaliation was captured by a French squadron, and carried into the port of Basseterre, where she was detained, and Bainbridge, and his officers, and men, held as prisoners until Dec. following, when she was given up. Upon his liberation, Bainbridge returned to the United States with his command, and upon his arrival was promoted to the rank of master and commander, and appointed to the command of the brig Norfolk, in which vessel he cruised very actively for the protection of our commerce in the West Indies during a large portion of the quasi-war with France. In May, 1800, he was promoted to the rank of captain, and appointed to the frigate George Washington, which was ordered to carry a large amount of tribute to the regency of Algiers. He arrived at Algiers, and delivered the tribute in September following, when the dey required him to receive on board his ship an ambassador, and presents to a large amount to be carried to Constantinople. Remonstrances on the part of Capt. B. were in vain. He was under the batteries of Algiers, a declaration of war against the United States was threatened

alled the idea, long prevalent with hat the British navy was invincible. 12, Bainbridge, now commodore, ted to the command of a squadron, f the Constitution, 44 (his flag-ship), nd Hornet, and sailed from Boston for a cruise. On Dec. 26, off St. hile separated from the rest of his t was his good fortune to fall in apture H. B. M. frigate Java, Capt. apture H. B. M. frigate Java, our ated 38, but mounting 49 guns, nplement of 400 souls. She was sombay, and had on board Lieut. on his passage to that place as the The action commenced at 2 P. M., ned 1 hour and 55 minutes. The Java was 174 killed and wounded, ip was reduced to a wreck, not a eft standing, while the Constitution illed, and 24 wounded, and the ship tle injured. She went into action yal yards across, and came out of it of them in their places. She was ship than her adversary, but our in gunnery was manifest in this, as our other naval conflicts during this Bainbridge was severely, and Capt. ortally wounded. The Java was her injuries precluding the possitting her into port, and the Continuous St. Salvador, where the are landed on parole. A touching rred on the quarter-deck, where ert was lying in his cot, just before n out of the ship. Com. Bainbridge him, supported by 2 of his lieutencre the sword of the dying officer, rted with the warmest expressions tle injured. She went into action rted with the warmest expressions egard. Capt. L. died a day or two Between Gen. Hislop and Com. B. sonal friendship commenced on this hich was never interrupted. The now returned to the U. S. for remuch decayed, and on her arrival was everywhere received with encongress voted him a gold medal, nes to his officers, and \$50,000 were to the crew as prize money. He command of the Constitution for navy yard at Boston, which he re-I the peace. In 1815 he was ap-the command of a squadron of 20 lependence ship of the line bearing is force was intended to act against n at war with us, but peace was refore it reached the Mediterranean. owever, during this command, setes with the Barbary powers satisdeturned home. Upon his arrival ointed to command affoat at Boston. again commanded in the Mediter-Columbus, 80, a new vessel, being p, and returned from this, his last at, in 1821. From this time until

p, and returned from this, his last at, in 1821. From this time until he was almost constantly employed it shore service, commanding at dif-VOL. IL.—32

ferent times the navy yards at Boston and Philadelphia, and holding the position of presisident of the board of navy commissioners. The personal appearance of Com. Bainbridge was very striking. He was tall and muscular, but well-proportioned; his eye was piercing; his expression animated, and all his motions were dignified and graceful. As an officer he had few superiors. Though ardent in his temperament, he was cool in danger, and always had the confidence of those under his command. His system of discipline, though rigid, was always consistent and just, and he was remarkable for paying the greatest attention to the formation of his young officers. The whole of his long and arduous career was most useful to his country, and honorable to himself.

of his long and arduous career was most useful to his country, and honorable to himself.

BAINES, EDWARD, an English politician, born in Lancashire, 1774, died at Leeds, 1848. Having partly served his apprenticeship at Preston, to the printing business, he obtained employment in the office of the "Leeds Morcury." In time, he became proprietor and editor of that paper, which his ability, tact, and consistent principle, eventually placed at the head of the provincial press of England. He was always the advocate of liberal principles,—particularly of Catholic emancipation and parliamentary reform. In 1834, on the vacancy caused by Mr. Macaulay's acceptance of office in India, Mr. Baines was chosen representative of Leeds in parliament, and occupied that position until 1841, when ill health compelled him to retire. Beside performing the duties of a journalist and politician, Mr. Baines wrote the "Wars of Europe," from the French Revolution to the fall of Napoleon, a "History of the Reign of George III.," and, richly illustrated, "The County Palatine of Lancashire."

BAINI. Guerppe an Italian musician, born

BAINI, GIUSEPPE, an Italian musician, born at Rome, in 1775, died in 1844, was the director of the papal chapel, and wrote Memorie storicho-critiche della vita e delle opere di Giovanni Pierluigi da Palestrina (Rome, 1829). He composed for the Sistine chapel a Miserere and a Dies Iras.

and a Dies Ire.

BAINS-DU-MONT-D'OR, a village of France, department of Puy-de-Dome. It is surrounded by mountains, which abound with minerals and mineral waters, and medicinal plants. The public baths, built entirely of lays, are extensive.

by mountains, which abound with minerals and mineral waters, and medicinal plants. The public baths, built entirely of lava, are extensive.

BAIOLENSIANS, or BAGNOLENSIANS, one of the sects of the Cathari, in the 12th contury, who derived their name from the town of Bagnols, in France. They differed from the principal branches of the Cathari only in the deeper disguise which they threw about their opinions.

BAIRAKTAR, MUSTAPHA PASHA, Ottoman grand vizier, born 1755, died Nov. 14, 1808. In 1806, as pasha of Rootchoo, he opposed the Russian troops who had invaded Moldavia and Wallachia. During the revolt of the janizaries, Bairaktar espoused the cause of Selim III., and opposed Mustapha. Mustapha having caused the assassination of Selim, Bairaktar avenged

mnasium, theatre, public libra-th has an active trade, principal-eral breweries and distilleries, woollen and cotton fabrics, henware. There are 8 palaces henware. There are 8 palaces One of them, the Hermitage, ilt structure, where are shown f Frederic the Great, and where

irgravine of Baircuth, wrote her ne cemetery near the city is a ted to Jean Paul Richter, who 825. The population, chiefly bout 17,000. Baircuth was for-I of the principality of the same

as annexed to Prussia in 1791. ceded to France, and in 1810 at power to Bavaria.

BAY, MICHAEL, a Catholic then in 1513, at Melin, in Flanders, He was educated at the

uvain, in which he became a as afterward appointed chan-or of its privileges, and inquis-he Low Countries. He adopted St. Augustine, whose works he erused 9 times. The defence of prought him into collision with ho, in 1552, selected 18 of his le dogmas and laid them, as heie university of Paris, which, in d the entire 18 dogmas as either re or less tinged with heresy.

wever, did not deter the Spananding Baius as its representail of Trent in 1563. In the 2 he published those celebrated orks which called forth, on Nov. unciatory bull of Pope Pius V., tized, indeed, 76 of his favorite not name him. He immediateery explicit epistle to his Holi-

church, and humble himself as Raina not desiring to be exaltimately obeyed, kneeling in the papal legate. In a few he was again active as a cont in pursuance of a bull of ssued Jan. 9, 1579, he made a on, March 24, 1580. The contest m time to time until his death. published at Cologne, in 1696. of great learning and virtue. bsequently became the basis of ansenism.

ject of his opinions and the as replied with equal explicitst submit unreservedly to the

name of the sea-gypsies or rovers chipelago. Bajau, or as more chipelago. Bajau, or as more ounced by Malays, Bajak, has mous with pirate. They live; and, with their women and n fleets of prahus from coast to natra to Papua—fishing, collect-diving for pearls; and also, rable opportunity is presented,

plundering some weak native craft or stranded European ship. The Javanese call them wong-kambang, the floating people; and the people of Celebes call them Tau-ri-jene, men of the sea. They are of genuine Malay stock, and speak the Malay language as it is spoken at the chief centres of Malay civilization. They practise many pagan superstitions, and observe the Mohammet and rite of circumsision. There are no transpagan superstitions, and observe the Monammedan rite of circumcision. There are no trust-worthy data to enable us to determine their numbers, but some well-informed travellers have supposed that there are probably not less than 50,000 of these remarkable floating people.

BAJAZET, BAJAZID, or BAYAZID. I. Otto-

BAJAZET, BAJAZID, or BAYAZID. I. Ottoman sultan, born A. D. 1347, died A. D. 1408.
He was the son of the first Amurath. After the battle of Kossovo, and his father's death, he seconded the through He was incorrectly he ascended the throne. He was incessantly occupied in the first years of his reign in sub-duing his rebellious subjects or adding to his conquests. He subdued the whole of Asia Miconquests. He subdued the whole of Asia Minor, and brought all the small principalities under the Turkish government. In 1391 he subdued Philadelphia, the last of the Greek cities of Asia, and in 1393 laid siege to Constantinople and compelled the emperor to assign a quarter to the Turks. In 1396 Bajazet gained a terrible victory over the emperor Sigismund, and utterly routed his army of 100,000 men. He subdued Greece, which, under the celebrated George Castriote, had so long defied his father, and overran the whole of the Morea. That turn of fortune which he had so often been the instrument to inflict on others, was now at hand instrument to inflict on others, was now at hand for himself. The Tartar empire of Tamerlane had reached the banks of the Euphrates, mutual had reached the banks of the Euphrates, mutual jealousies had sprung up, and from mutual aggressions they came to an open rupture. The empire of western and central Asia was the stake at issue. The 2 conquerors met on the plains of Angora with armies of incredible size, in which the preponderance of numbers seems to have been on the side of Tamerlane. Bajazet was totally defeated and taken prisoner, and, according to general belief, was kept in an iron cage and carried about until his death. On account of the rapidity of his movements Bajazet was of the rapidity of his movements Bajazer was called Ilderim, the lightning. He was succeeded by Mohammed I. II. Ottoman sultan, son of Mohammed II., born A. D. 1447, died 1512. On his father's death his brother Zizim disputed the succession. He was defeated, however, and fled to Egypt, and afterward to Rhodes, whence D'Aubusson the grand master sent him to France. The unfortunate Zizim was kept some time in France, and negotiations for his surrender having been opened by Bajazet, he was transferred to the custody of Alexander VI., who is reputed

to have sold the life of his prisoner to Bajazet

to have sold the life of his prisoner to Bajazet for a large sum of money, and to have poisoned the Turkish prince. Bajazet was continually engaged in war, with varying success, against the Venetians, the Egyptians, and the Persians. His reign was brought to a close by the civil war of 3 of his sons, claimants of the throne, in which Selim was at last successful, and Bajazet

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Pop. in 1855, 11,785, of whom 11414,218. ere slaves

BAKER CHARLES, superintendent of the Yorkshire institution for the deaf and dumb, at Doncaster, England, was elected to that post at copening of the institution in 1829, and has baced it in the first rank of institutions for the cast and dumb in England. Mr. Baker has inguished himself as a writer on philanthrosubjects. His contributions to the "Penny in 1835, on the deaf and dumb, blind, and to the publications of the society diffusion of useful knowledge, were years since collected into a volume of value to those who are interested in the value of either class. He has also achieved high reputation for his efforts in the promoof general education in England. The heaster institution had, in 1852, 110 pupils. AKER, DAVID, or AUGUSTINE, an English

bedictine monk, born at Abergavenny, in the died in 1641. He was educated at Oxdet, studied the law, and was successful in its actice. But on a certain occasion he was in imminent danger of being drowned, and the imminent danger of being growned, and its escape was so unlooked-for and extraorditry, that he did not hesitate to ascribe it to apernatural agency. It was, in his opinion, a let determined, therefore, the perma and vanities of renounce at once the pomps and vanities of sworld, and to devote himself to the service this Saviour and master. Bidding farewell, accordingly, to his profession and his native town, he proceeded direct to London, where he joined a small society of Benedictines, then their way to Italy. In Italy he was regularly admitted into the order, on which occasion he dropt his baptismal name of David, and assumed that of Augustine. After some time he the continent, he settled at Cambray, and be-

stablished in that city. He spent almost the He wrote several devotional works, some of which were published in part after his death.

BAKER, HENRY, an eminent botanist and

microscopist, was born in Fleet street, London, in 1708. He was brought up to the bookselling business, but soon abandoned it for more consenial pursuits. His experiments with the penial pursuits. His experiments with the wations of great value. He devoted much of his leisure time to botany, and introduced into England several valuable exotic plants; among others, the large alpine strawberry, the seed of which he received from Turin, and the rheum palmatum, or true rhubarb, which he obtained from Russia. The name of Henry Baker, however, will be longest remembered for his labors ever, will be longest remembered for his labors in the instruction of the deaf and dumb. Whether he was cognizant of the labors of Wal-lis, Holden, and Dalgarno, is uncertain, but he established a school in which he instructed the deaf mute children or wearen also those who stammered. The deaf mutes ne tanght as did Wallis and Holden, to articulate. It is said that he acquired a fortune in this busing. T. Braidwood, who commenced a Fdinburgh in deaf mute children of wealthy parents, and also those who stammered. The deaf mutes he school for the deaf and dumb in Edinburgh in 8chool for the dear and dumo in Administration 1760, is said to have acquired his processes. Mr. Baker died in the Strand, Nov. 25, 1774, in his 71st year. His microscopical observations, and his communications to the royal and antiand his communications to the royal and antiquarian societies, of both which he was an active and valuable member, have been published.

BAKER, SIR JOHN, an English statesman who flourished in the 16th century; he died in 1585. In 1526 he was attached to a special embassy which was sent to Denmark. was subsequently elected speaker of the house of commons, of which he must have been previously a member; next he was appointed attorney-general and sworn a privy counsellor. Lastly, he was in 1545 made chancellor of the Lastly, he was in 1040 made chancehor of the exchequer. In all these high stations he discharged his duties with honesty and ability. He was the only privy counsellor that had the courage to refuse his signature to the bill by which Edward VI. sought to exclude his sisters.

Mary and Elizabeth from the throne.

BAKER, Osman C., an American clergyman, bishop of the Methodist Episcopal church, born bishop of the Methodist Episcopal church, born at Marlow, in New Hampshire, in 1812. He was licensed as a preacher in 1830, and the same year entered a college in Indiana. After 8 years' residence in the college, he was elected a teacher in a seminary at Newbury, Vermont, where he remained till 1844. He then devoted himself for 3 years to preaching, till in 1847 he became professor in the Methodist general Biblical institute, a position which he still holds. He has been twice delegate to the general conference, and was elected to the office of bishop in 1852. in 1852

BAKER, SIR RIGHARD, author of the "Chronicle of the Kings of England," born in Kent in 1568, died in the Fleet prison, Feb. 18, 1644. In 1608 he was knighted by James I. In 1620 he was high sheriff of Oxfordshire, where he appears to have then possessed considerable property. But misfortunes came upon him Hamiltonian and himself and the state of the possessed considerable property. Having made himself responsible for the debts of certain members of his wife's family, all his property became the prey of their creditors, and the consequence was that when over 50 years of age, he had to take up his pen and work for bread. He became in time the author of numerous works, the most important and best known of which is his "Chronicle of

1641. BAKER, Thomas, an English mathematician, born at Ilton, in Somersetshire, in 1625, died in 1690. He was a clergyman, and spent the greater part of his life engaged in mathematical pursuits, and the discharge of his sacred duties. He made many discoveries in geometry and algebra.

the Kings of England," published in London in

when him should die, and Bakhtishwa could wave the lives of his colleagues by adminiting poison to the caliph, from which he had. Another case in point occurred at the tinning of the 9th century, in the instance Grisbril ben Giurgis ben Bakhtishwa, who doomed to die by Haroun al Rashid, besting distinguished caliph had a relapse of poplectic fit, and accused the physician, who helped him over the original fit, of having cherously concocted the fatal relapse. His was only saved by the death of the caliph, hich fortunately took place before he could ry out his design. The most learned of the latishwas was Abu Sa, who flourished in 3d half of the 10th century. He is the retad author of a medical work in 50 chapters, dicated to Caliph Motaki, and entitled Aldat Allabiat (Hortus Medicina).

Baking Machinery. Bread is the stant of life among all civilized nations, and

the European continent is nearly the only defend of the peasantry of large provinces. This reason many inventors have been do in every country to improve and cheapen manufacture, only 2 of which have thus far successful; they are those of Hiram Ber-ta of New York, and of I. F. Rolland of rance. For a more ample exposition of the ory of bread making, see the article BREAD. fere a few of the principal points will alone given. The yeast causes the fermentation of dough, that is, the transformation of starch to carbonic acid and alcohol. The temperature of thre necessary to cook bread must be at least 12° F., and to raise the loaf well, form a good trust, and bake it thoroughly, a steady heat of about 400° is required. Bread may be made without crust by maintaining the temperature at 212°, but it will also be destitute of the muchcateemed fibrous texture, and will not undergo the chemical change necessary to make it wholeorne, by an intimate union of the water with he constituents of the flour. The crust is more coluble than the inside, and is much more easily digested.—Berdan's Machinery was established in Brooklyn in Dec. 1856, and was destroyd by fire in May following. A large bakery has since been erected on his plan in Philadelchia, capable of converting several hundred carrels of flour into bread daily. The building 4 stories high. There are 2 ovens 30 feet 4 stories high. high, 24 feet long, and 10 feet wide, passing up from the basement into the 2d story. They are heated by ordinary coal furnaces underneath, through cast-iron arches which form the botran up the sides and carry off the smoke to the chimney. The heat is thus radiated into a close chamber. The temperature is regulated by dampers, moved by iron rods, which close and open them by expansion or contraction under different degrees of heat. Within the oven are 3 endless vertical chains supporting 26 cars or travs containing the bread. The chains cars or trays containing the bread. The chains move slowly round, so that the cars move up-

ward on one side of the oven and downward on the other. Each oven has 4 doors, 2 on the 1st and 2 on the 2d story. On the side where the chains move upward, the cars containing the bread enter the oven through the lower door, and are delivered at the upper door; the reverse is done on the other side. These bread cars are made of a cast-iron frame floored with tiles 1; inch thick, on which the unbaked loaves are placed. The car being charged with loaves by hand, the door of the oven opens mechanically, an iron arm comes out, pulls in the car on rail-tracks and the out, pulls in the car on rail-tracks, and the door closes. When the car arrives opposite the other door the bread is baked; this door opens, the car is pushed out by an iron arm. the loaves are dumped from it into baskets, and the car moves on a track to the front of the other door, where the attendants stand ready to load it with new loaves. The machine for kneading the dough is a large horizontal cylinder 10 feet long and 6 feet in diameter. At each end of the cylinder are 2 disks of nearly the same diameter, hung on the inside ends of 2 short shafts. These disks are united near their circumference by 2 longitudinal bars on opposite sides. At each revolution the 2 bars are forced through the dough which they knead, are forced through the dough which they knead, while a broad flapper, hung on the 2 disks eccentrically, or out of the centre, carries it up and lets it fall upon the lower part of the cylinder. Eight barrels of flour are kneaded in 15 minutes by this machine, all the working parts of which in contact with the dough are sheathed with zinc. The dough is made into loaves in another machine called the loaf cutter. This consists of a vertical zinc cylinder in which the dough is placed and pressed down by a piston dough is placed and pressed down by a piston acted upon by a screw. The dough thus compressed escapes through 8 holes in the bottom pressed escapes through 8 holes in the bottom of the cylinder. These holes are round, and encircled by knives, which at equal intervals of time cut off the dough, which has been pressed into corresponding cavities in a zinc roller placed immediately under the cylinder. These rollers have, like the knife, an intermittent motion, and each time a row of 3 recesses is filled an empty row is brought under. The pieces of dough are discharged on reaching the lower part by means of pistons working by an eccentric movement in the cavities. They fall upon an endless apron, which conveys them to the moulding-table, where they are put into shape. They are all of equal weight, according to adjust-A register is attached to the roller of the last-described machine, to record the number of loaves produced.—ROLLAND'S MACHINERY oven. It is now common in France and Belgium, and there is one in operation in New York. The kneader is a half cylindrical trough in which a shaft bearing 2 operation. consists of a mechanical kneader and a rot in which a shaft bearing 2 opposite rows of projecting arms, 4 inches apart, is made to revolve. The ends of the arms are united by a flat bar parallel to the shaft, which scrapes the bottom of the trough at each revolution, and prevents any portion of the dough from adher-ing to it. From this bar a number of shorter arms, directed toward the centre of the shaft, reach only half the distance to it. The dough is placed in the trough and the shaft is turned alowly, at the rate of 4 or 5 revolutions per minute; a greater velocity breaks the dough instead of kneading it. With this instrument a man of average strength kneads easily 3 bar-rels of flour in 30 minutes, and the saving on the hand process is calculated to be 75 per cent. The most important feature of the oven cent. The most important reature of the oven is a circular horizontal platform mounted on the top of a vertical shaft which is free to re-volve. This platform is 12 feet in diameter; it is made of iron covered with tiles, on which are placed the loaves to be baked. It is ind in a cylindrical room of brick walls, with a ceiling of iron, over which, at a short distance, is a floor of the same metal, covered with a thick bed of sand. A small grate, 3 feet by $1\frac{1}{2}$, is built in the walls; the flames of this furnace circulate in 8 cast-iron pipes, placed in the vacant space below the platform, and rise in a vertical flue in the wall, passing between the 2 iron floors and escaping into the chimucypipe. The door of the oven is very low, so as allow as little steam as possible to es when it is open, it being shown by experience that a moist heat gives a whiter and better bread than a dry heat. Near the door is a crank, by means of which the attendant turns the platform and brings which side he pleases near the door, and the loaves are put in and taken out in the usual manner. The fuel used is coal. It is claimed that there is an economy of 50 per cent. on this combustible, and 80 per of 50 per cent on this combustible, and 80 per cent on labor, with a gain in the quality and weight of the bread; and, moreover, that the oven is always ready to bake, so that, with one of this sort, nearly as much work can be done as with two built on the common plan.

BAKONY-WALD (i. e. Forest of Bakony), a mountain range in Hungary, between the Raab and Lake Balatony, and which separates the great and little Hungarian plains. Average elevation, 2.000 feet. It is crowned with lofty

elevation, 2,000 feet. It is crowned with lofty

forests, and has quarries of very fine marble.

BAKOO, BARU, or BA
town, population in 5412. G BAKOO, BAKU, or BA town, population in upon the Caspian ro upon which it is 1 bay, are composed or Thro in tossil shells. springs of naphtha and p with streams of inflammane good mud from so-called mud vole phenomena give to the region the Field of Fire, and formerly made sacred city of the Guebres or Fire Wo Bakoo has also been called the Paradist us a The naphtha is so abundant that it is an article of commerce. It is obtained of two qualities, one a colorless thin fluid, which marks 18.66° in the arcometer; and a poorer quality (petroleum) thick and tenacious. It is said that the

annual value of the naphtha sold to the? annual value of the naphua sout one; is about \$300,000. About 15 miles I.I. Bakoo, is a jet of inflammable as is in the calcareous rocks, which is working those of the Asiatic tribes living in the and also by pilgrims from distant purse who come to pay their devotions to the principle of fire; and there is a nunerous hood supported by the gifts of these at The gas once inflamed continues to but called the perpetual fire; it is said to out smell, and inoffensive to branche but statements may be regarded with to burns with a yellowish white flame, plodes when mixed with atmospherical are properties of carburetted hydra Beside the commerce in naphtha, Bake which also i also large quantities of salt, by the Persians. This is obtained from lakes of Massassir and Sich. The fi three miles in length and a mile andal affords every summer 5,400,(##) lt which quantity could be more than The latter is only a mile long and of a mile wide. The salt collects of a mile wide. The upon the bottom of it. About 790.0 annually collected, which is said to tenth part of the quantity that mi tained. These two lakes yield abo of all the salt that is collected from a of the neighborhood. The other pro of the neighborhood. The other pro-region are saffron, madder, and silk. BAKOUNINE, MICHEL, a Rossis

and revolutionist, born in 1814, i district town in the government of sia. His name became promine agitations before and after 1848. cated in a military school at St. served in the artillery of the guar resigned his commission. In 1841 resigned his commission. In low Berlin to study philosophy; in 1841 Dresden, continuing his studies with Ruge. There he published at treatise, under the name of Jui From Dresden, in 1843, he went a studies with the Pt entered into relations with the Pc tion. Shortly afterward he went ! Switzerland, where he parties various socialist and communis where he particip became personally acquainted individuals of various nations same convictions. In this w mate with Vogt, the celebr materialist, naturalist, and r Russian government o home. Bakounine refus confiscated. This act of conferred on Bakounine In 1843, he returned to Par pet of all the revolutionary the leaders of the French longed to the corps of write a daily journal conducted ducted b

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h invoking the fusion of Poles and the better and easier revolutioniz-This speech, which was reprorious continental journals, made ensation, that the Russian govern-ed from Louis Philippe Bakounine's m France. He retired to Brussels, nded story was then spread that overnment offered a purse of \$6,000 his extradition. The revolution his extradition. The revolution recalled him to Paris, where his ands, Flocon, Ledru-Rollin, Louis dière, and Stephen Arago, were in ring on their support, he went to hemia, with the intention of revo-e various tribes of the Slavic famfacilitating the influx of new ideas Russia. In Prague he took part Slavic congress, and in the bloody hich ensued, at the end of which Berlin, where he became promi-the democratic movements. Exhe Prussian territory, he went to when residence there was denied ok himself to Dessau and Köthen, aly engaged in the fermentations i. The bloody outbreak of Dres-1849, was almost wholly combined by him. After the overthrow of mary party by Prussian bayonets, Chemnitz, where he was arrested of May 9. He was imprisoned in & Königstein for nearly 8 months, ed to death in May, 1850. commuted to imprisonment for life, iterward Saxony delivered him to th had claimed him on account of gue. In Austria, in May, 1851, he ademned to death by a court-marverdict was again commuted to im-r life, when Russia interfered with naternity over the victim. He was her, and imprisoned, as it is sup-He was dungeons of the fortress of Schlüse he is generally believed to have

NS, one of the most southern of a tribes in the southern part of y have recently declined in power, accessful in their wars against the outch settlers; and even the rivers, aid to have formerly supplied the heir fine herds of cattle, are now akwains are described by Dr. Livabject to few diseases, the princiose occasioned by sudden changes re, as pneumonia and rheumatism. to him, by intelligent converted at nothing which Christians dea ever appeared to them as other-the privilege of having more wives d they declared that before they it men they spoke in the same concerning the influence of God in a answer to the prayers of rainin granting deliverances in time of

danger. They have no forms of prayer or public worship, and though they possess a notion of the Deity and of a future state, they yet show so little reverence that some have supposed them utterly ignorant upon those subjects.

them utterly ignorant upon those subjects.

BALA, a town of north Wales, at the N. end of the Bala lake, county of Merionette. It has 5 fairs annually, chiefly for the sale of live stock. The town and its neighborhood have long been famous for the manufacture of knitted stockings, and gloves of strong and soft texture. At the south end of the town is a large artificial mound, supposed to be of Roman origin. This mound was anciently occupied by the Welsh as a fort to prevent the incursions of the English.

BALAAM, a person who appears but briefly on the page of Biblical history, but in that short career presents phenomena which, on a short career presents phenomena which, on a superficial observation, seem to be incompatible with each other. Balaam was the son of Beor, and a native of Pethor. His name means either "the lord of the people," or the "destroyer of the people." The children of Israel bad reached in their tourney, the plains of had reached, in their journey, the plains of Moab. Balak, the king, was terrified at seeing so great a host invading his territory. They were too mighty for him. He sent, therefore, to Balaam, a well-known prophet and soothsayer, to come and curse these hosts for him, so that, peradventure, he might then smite them and drive them out of the land. Balaam, Balaam, warned of God in the night, refused to go with the messengers, and sent them away. Balak sent yet others. He at first also refused them, but in the morning he went, with the divine injunction to speak what the Lord should tell him. The angel of the Lord met him in the way, gave the ass he rode a vision in 3 several instances, and each time Balaam angrily smote the beast for her involuntary manifestations of terror. After the third beating an interlocution ensues between the ass and the master, when the Lord opened the eyes of Balaam and, seeing the angel, he converses with him instead of the ass. As the result of the conversation, Balaam is permitted to go on, and the charge repeated to speak only that which he had a bala and the charge repeated to speak only that which the Lord should tell him. Coming unto Balak, he informs him that he can only speak that which God shall put into his mouth. Balaam refuses to curse Israel, but pronounces a blessing upon them, in the 3 several places to which Balak brought him in the vain hope of securing his purpose. This completes the Old Testament history of the transaction. The New Testament makes reference to it (2 Pet. ii. 15, Jude 11, Rev. ii. 14), in which Balaam is accused of error and of advising Balak to lead the

a war with Moab.

BALABAC, an island lying in Balabac straits, between Borneo and Palawan. Its highest peak is lat. 8° N., long. 117° 7′ E. Length, 15 miles; breadth, 10; area, 504 sq. m.

children of Israel into idolatry, which, according to his directions, they did, and hence arose

It is claimed as a possession of the sultan of Sooloo; and by reason of its inhabitants partaking of the same piratical character with all the semi-barbarous Malay tribes inhabiting the islands that border on the sea of Mindoro, no communication has been held with them by Europeans, and we have no precise information about the island. There is a safe roadstead, in a bay called Dalawan, on the eastern side.

BALA-BAGH, a fortified town of Afghanistan, famous for its fruits. Near it are numerically also be a family to be a family

BALABALAGA, or BALABALAKAN, also called Little Paternosters, a group of 43 islets, and numerous rocky points, in the straits of Macassar, between Borneo and Celebes; area of the group 115 ac m. But little is known of the group, 115 sq. m. But little is known of them; they have no permanent population, but are visited by the roving Bajaus or sea-gypsies of the Indian seas, for the purpose of fishing; and the group has often, in times past, afforded shelter for the preparation of piratical expeditions

expeditions.

BALACHONG, a condiment made of shrimps, various small fish, shredded cocoanuts, and tender bamboo sprouts, well pounded and pickled, by a long process, which is much used by all the people of the Malay archipelago, and to a considerable extent by the people of southeastern Asia. The Greeks and Romans made use of a condiment called garum, which was made of a Mediterranean fish; and it is somewhat singular that the principal fish used in what singular that the principal fish used in the preparation of balachong is found in Su-matran rivers, and called in Malay, ikan-guramee. This article is called trace in Java,

and bugon in the Philippines.

BALAGHAUTS, a district of Hindostan, in the central plateau of the Mysore country. It extends from the river Krishna to the river extends from the river Krishna to the river Kaveri; area, 25,500 sq. m. The surface is hill and valley. The soil is fertile. It produces indigo, sugar, cotton, tobacco, betel, and red pepper. It sustains large numbers of cattle, sheep, and goats. The central and eastern districts have diamond mines. The term Balaghauts is now restricted to those parts of this vast extent of table-land called the ceded districts. The entire district formed the ancient Hindoo empire of Karnata. Hyder Ali at to his dominions. It is now a It is now 4 to his dominions.

dency of Madras,
BALAKHNA, a town of bank of the Volga, where 1.
Oosola. It contains 15 and has considerable trace in

BALAKLAVA, a harbor and village used as the British landing war in the Crimea. It is situated in a side of the Heracleotic Chersonesus, and last and south-easternmost of natural harbors, scooped out of the ste cliffs of this portion of the C of these is the harbor of head of which Balaklava 1 nearly direct line, that line

mus, as it were, of the Heracleotic Chem and nearly coinciding with the naturally is escarpments which bound the platent of bastopol, and descend thence, more precipitously, into the valley of the Ichan the engiest point of ascent being in the the easiest point of ascent being imade above the port.—The name of Balakhwai above the port.—The name of Balakhwi to be derived from the Italian work chiara, beautiful quay or harbor, given to the Genoese, who had many settlement ing the middle ages, on the Crimea. built a strong and capacious carde, then which yet stand on the precipitous class ing to the right hand, and command that of the harbor. It is thus described, as far from the inland approach, by Mr. Re spirited and graphic correspondent of the don Times:" "He was a bold mariner of ventured in here, and keen-eyed, too never more astonished in my life than halted on the top of one of the nume of which this portion of the Crimes i posed, and, looking down, saw under m posed, and, looking down, saw under a little pond compressed by the sides of mountains; on it floated some 6 or 1 ships, for which exit seemed quit 1 The bay is like a Highland tarn, and it ere the eye admits that it is half a limit from the sea and varies from 1 length from the sea, and varies from 2 yards in breadth. The aboves are so pa that they shut out, as it were, the enter the harbor, and make it appear must than it really is. Toward the sea t close up, and completely overlap the channel which leads to the haven, as quite invisible. On the south-east of village which struggles for existence the base of the rocky hills and the a the sea, there are the extensive ruins oese fort, built some 200 feet above to oese fort, built some and large a large a large and its curtains, bastion position; and its curtains, bastions, walls, all destroyed and crumbling in they are, evince the spirit and enthardy seamen who penetrated th cesses so many years ago. —The plane ever, most famous for what is knowne tle of Balaklava, in Oct. 1854.of Balakiava, n above the gorge 4 been thrown up, a plain above the Turkish detachments, for t posts from a Russian attack structed, too far from one from their supports. Ac 7 o'clock in the morning, To clock in the morning that the enemy were del-by the gorges of the Tch-of Balaklava. Six comp-infantry were at once se-regular line of at least 20 their front. In front of batteries of light field-pio-diately behind the guns,

it a feeble resistance and flying to the of the 93d Highlanders, who were on the slope of the hill under the of Sir Colin Campbell. Here they I formed in companies on the flanks 1 formed in companies on the flanks ighlanders. The victorious cavalry n 2 bodies en echelon, with a third in t least 1,500 strong, and rode right at anders. At 800 yards the Turks fired volley and fled. At 600 the Highwe them a rolling fire of Minie rifles, ough it emptied many saddles, failed the onset. When the horse were the onset. When the horse were 0 yards of "the thin red streak topped ine of steel," the second volley ran ir front, and the Russians, unable to ir front, and the Russians, under the fire, opened their files, right and led. It was only when the suspense that the whole British army, who tators from the heights above, obat the Highlanders had repulsed horse dinary British line, 2 deep. Almost me moment, in another lap of the arated by a ridge of high ground from of that encounter, another great mass n horse, hussars, lancers, and dra-me suddenly on the English heavy igade, under Gen. Scarlett, consisting stch Greys and Enniskillen dragoons, t line, and the 1st royals and 4th and on guards in the second. The Ruswere double the length, and treble of those formed by the handful of and, when the trumpets sounded, and and Enniskilleners rushed at them, remendous cheer, they brought for-i their wings, as if to envelop them, British horse went through them, as d been lines of pasteboard; and, just ere closing with the second line, the d dragoon guards dashed at the remhe first line, shattered it in an instant, ging into the second, while it was disby the first shock, completed its rout.

great event—though it was both a

nd a disaster—was the charge of the After the repulse of the cavalry nda. lighlanders, and their defeat by the igade, the Russians made no more advance, but contented themselves ling the taken redoubts and carrying cans with which they were armed. oment an order was brought to Lord ho commanded the handful of horse, in number to an ordinary European which bore the name of the light numbering in all about 630 men—husars, and light dragoons—to advance. whither?" was the question. "There ars, and light dragoons—to advance. e whither?" was the question. "There emy, sir," was the reply, "and there emy, sir," was the reply, "and there uns." And truly there they were! lions of infantry, 6 solid masses of with 30 heavy guns in position, ditheir front; the captured redoubts ir batteries on the right; and the their left lined with riflemen and

light field-pieces, and a mile and a half to be traversed, under the fire, before they could meet an enemy. Every one knew that there was a blunder somewhere; every one knew that they were ordered to do what was hopeless; that they were ordered to ride upon death; but they did it. They took the guns, cut their way through the infantry supports, cut their way through the cavalry. Nothing stopped them till they reached the banks of the Tchernaya, when they wheeled, 3 about, only to see that they were unsupported and enveloped. Still, they cut their way back under the play of the Russian batteries, but with fearfully diminished numbers. A gallant charge of the French chasseurs d'Afrique, who carried a battery on the left, and the manœuvring of the heavy brigade, partially extricated them, or rather covered their retreat; and when they reached the ground from which they had started on that headlong charge, the handful of survivors, not above 150 men, wheeled round to face the enemy, dressed up as if on parade, and burst into a cheer of exultation and defiance. The order never has been explained, nor is it known from whom it was issued, or whether, in truth, it was ever given. Capt. Nolan, who delivered it, was the first man who fell. As a military manœuvre, it was useless, insane, and without a possible result. As an exploit, it has never been equalled, even by those related in the wildest legends of chivalric romance.

RALALALKA a musical instrument some.

equalled, even by those related in the wildest legends of chivalric romance.

BALALAIKA, a musical instrument somewhat similar to the guitar, but having only 2 strings. It is used among the Tartars and Russians, and, as Niebuhr informs us, is also common among the Arabs and Egyptians. The instrument is supposed to be of ancient Sclavonian origin.

BALAMBANGAN (Malay, palm plank), an island at the entrance of Maloodoo Bay, on the north coast of Borneo; area 90 sq. m., uninhabited. The sultan of Sooloo, who was taken prisoner by the Spaniards in 1762, and held in captivity at Manila, having been liberated by the English, ceded this island to his rescuers as a recompense; and in 1775 it was taken possession of, and garrisoned by the British East India company; but shortly afterward a large body of those pirates that have so long been a terror in the Sooloo sea, harassed the small garrison till they were compelled to abandon the island. It was again garrisoned by a detachment of English troops in 1808, but after a short stay was voluntarily abandoned, on account of the unproductiveness of the soil, and the dangerous character of the neighborhood. Since the establishment of the British settlement at Labuan, 170 miles further south, attention has been again directed to Balambangan, and it has probably received another British garrison by this time. In accordance with the suggestion of Sir Stamford Raffles, a British settlement is to be formed in Borneo, at the bottom of Maloodoo Bay, in connection with the settlement of Balambagan.

BALAMBUANG, a bay, on the east coast of Java, in the straits of Bali, deep and well sheltered, affording excellent anchorage, once a noted resort of shipping, in the times of the old Dutch East India company; but, in consequence of its extreme unhealthiness, this roadstead has been abandoned for that of Banyuwangi, in the same strait.

BALANCE, a word probably derived from the Latin, valentia, signifying the value of a thing, and hence applied to the instrument for determining its weight, on which the value most generally depends. Hence, too, its various applications in the sense of equivalent; and also of that which must be added to any thing to make it equivalent to another. The French the same word for the instrument and use the same word for the instrument, and derive it from the Latin words bis and lanx, signifying 2 dishes or pans. Of instruments for weighing bodies the name balance is commonly given only to those used in assaying and chemical analysis, and these represent the most perfect form of the instrument. It is con-structed of a light inflexible bar called the beam, which is suspended from a point on a beam, which is suspended from a point on a line bisecting it, and from each extremity of which, equally distant from the point of sus-pension, hangs a pan, in one of which the body to be weighed is placed, and in the other its counterpoise, consisting of bodies of known weight. The instrument is thus nothing more than what is called the lever of the first kind, that is, one in which the fulcrum is between the body to be moved and the power applied. The first object of importance is the position of the fulcrum or turning point of the beam. This may either coincide with the centre of gravity of the beam, or be a little above it, on the same vertical line. In the former case, or if placed below it, the slightest inequality of weight would cause the beam to preponderate on one side and not return, or, what is called, upset; this is entirely inconsistent with the property of stability, essential to all good balances, which is the tendency of the beam, when disturbed from its position to return toward it, and oscillate about its point of rest. If, on the It, on the contrary, the point of suspension is a little above the centre of gravity, and then impelled in either dire to return, and will continue time in ares continually grow comes to rest; and, fu the weights upon the a same, the less the distance we p sion is above the centre of gravity, inclined from the horizontal will be when this becomes stationary. The point of suspension is brought to the gravity, the greater is the sensibility or strument, or its tendency when los poised to turn on the addition of a ve when load weight to either scale. But the ing the balance unstable r terval to be retained beau This interval, however,

instruments, is not constant, but the on gravity is made by means of a little w that may easily be screwed up or a vertical index or needle set upon the la these 2 points, to be brought nearer or near further from the point of suspension. the balance is heavily loaded, the increased and the sensibility diminished: movable ball should then be placed to the centres of gravity and motion is proximity than when the load is light turning point of the beam, in order to n the friction to the least amount, is a la or triangular prism of hardened steel right angles through the beam, and when in use, upon polished plate of (one each side of the beam), which a exactly upon the same horizontal plans knife-edge should be polished and brus an angle of 80°.—The next matter of 1 an angle of 80. — 100 mea. ance is to fix the situation of the poi pension of the pans or scales. each extremity of the beam. They satimes made to admit of a slight move adjusting screws, so as to increase or the distance from the centre of made they may be made precisely equities centre. Great care is also rethe line connecting them is precisely angles with the line passing three tree of motion and of gravity. their connecting line passes to the greater is the sensibility, other the same. The index or pointer the same receive its line passing the same of the same a long needle, its line passing centres, and extending either al the beam, or it is a needle exte extremity of the beam. In eith brates with the motion of the graduated arc, and rests upon when the beam is horizontal upon each side of the zero of th as the needle oscillates past them mediate point at which this will rendering it unnecessary to wait rest. In order to save the kn wear, the beam is made, in delie rest, when not in use, up the pans upon the floor the instrument stands. upon being lifted by means of the beam off its support or the supports, by a s let down from the beam the agate; the pans in the remain suspended.—T remain suspended.— tests to which a balan determine its qualitie are set the agate or ste by the adjusting scre-it is attached, a spirto these planes a

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t the pans) is next placed upon tes; the needle at rest should fall co-point; oscillating, the motion w and regular, diminishing equally tion. The beam is then taken off, I, and the same observations made. Ire next suspended to the beam occessively with different weights, aken whether the vibrations are side; and trial is then made as to weight the balance is sensitive.

side; and trial is then made as to weight the balance is sensitive

4. The weights producing equiext changed from one pan to the sy should in this change still expoise each other.—However perce may be made, there is always be exercised in its use. Errors le in the estimation of the nice sused to determine. The sources voided by a simple and ingenious sighing, suggested by Borda. The reighed is exactly counterpoised, nout of the pan and replaced by its, added till they produced the A false balance must by this neactorect results. A true balance correct results. A true balance to give false results by its vity being brought very near to notion. A small weight allowed he empty pan, may then give a us to it, causing it to raise a placed in the other pan, and the emprest and refusing to vibrate.

placed in the other pan, and the nen upset and refusing to vibrate, all weight to appear to counterpreater one.—An ingenious form is been contrived by M. Bockoltz, vided with only one pan, and to the other arm of the beam, a consequired in this pan, which may fee the body to be weighed and suffer weights beside. The simplicity of this apparatus caused it to rerecommendation from the Société ent. In its construction the nice fee the two arms to precisely equal of the three knife edges in the line, is rendered unnecessary. It is be an objection to this balance etermination of the most minute and must be the same as for the ties; hence it must be deficient in atimating very small quantities.—employed for delicate balances y grains, one of each of the units, if the tens, and the same of the I thousands, as also of the tenths,

and thousandths of a grain; or French gramme weights, with parts. The latter are the most of in chemical assays and analyses. eights are of brass, the smaller of a these are always handled by air of forceps. The beam of the quently marked by divisional lines and one of the small weights, as a ndredth of a grain, or a milli-

gramme, is bent into the form of a hook, so that it may be moved along the beam to any one of these lines to bring the balance to exact equilibrium. By this arrangement the picking up and trying one weight after another is avoided, and the proportional part of the weight used is that indicated by the decimal number upon the beam, at which it rests to produce equilibrium. The best materials for a belence are those which combine strength with balance are those which combine strength with lightness, and are least liable to be affected the atmosphere and acid vapors. Brass, platinum, or steel, is used for the beam; but probably aluminum will prove to be better adapted for this purpose than either. The pans are commonly of platinum, made very thin, and suspended by fine platinum wires. The support is a bree miller secured to the ficer of the port is a brass pillar secured to the floor of the glass case, in which the instrument is kept. Doors are provided in front and at the sides, so that access is had to the instrument, but these are commonly kept closed, and are al-ways shut in delicate weighing, that the beam shall not be disturbed by currents of air. So delicate are the best balances, that when lightly loaded and left to vibrate, they may be lightly loaded and left to vibrate, they may be affected by the approach of a person to one side of the glass case, the warmth radiated from the body causing the nearest arm of the beam to be alightly expanded and elongated, so as to sensibly preponderate. The degree of sensibility is estimated by the smallest weight in proportion to their load, that will cause the beam to be deflected from a horizontal line. If beam to be deflected from a horizontal line. If a balance have 5,000 grains in each pan, and is observed to be moved by the addition of 180 of a grain, it is said to be sensible to the 1.555.655 of its load. Dr. Ure notices one that was sensibly affected by 7.55 8.55 of its load.—The steel-yard, the Roman statera, is one of the forms of the balance, the two arms being of unequal length, the body to be weighed being suspended by a pan, or otherwise, from the short arm, and the counterpoise, which is a constant weight, being alid along the longer arm until equilibrium is established. As this occurs when the weight on one side multiplied by its distance from the fulcrum is equal to the weight on the other multiplied by its distance from the fulcrum, and as on one side the weight is constant, and on the other the distance from the centre of motion, the unknown weights must be determined by the distance of the constant weight from the centre.—The Danish bal-ance differs from the common steelyard in having the counterpoise fixed at one end, and the fulcrum being slid along the graduated The graduation commences at a point near the counterpoise, at which the beam with the pan suspended at the other end is in equilib-rium, and the numbers increase toward the rium, and A balance called the bent lever is employed to some extent for purposes not requir-ing extreme accuracy. The pan is attached to one end of the beam and the other carries a constant weight. From the bent form of the

lever this weight is raised to a height varying with the weight placed in the scale pan. A pointer attached to the constant weight and moving along a graduated arc, indicates by the number at which it stops the weight of the body in the scale pan. Its indications are body in the scale pan. the least to be depended upon when the constant weight approaches to the horizontal or vertical line passing through the centre of motion. The scales generally used in the United States for weighing wagons while loaded, and boats as they pass through the canal lock, are ingenious modifications of the steelwherein the weight of these ponderous bodies is divided by means of levers, and a known fraction of it sustained by one end of a beam, the other end of which is graduated for a moving weight. All the modern modifications of the steelyard contain the additional device of a pan hung at the end of the graduated arm to receive larger weights, while the sliding weight is used only to believe the freesliding weight is used only to balance the frac-tion of parts.—Spring balances are popular in-struments, and consist of a helix of wire enclosed in a cylinder. The body to be weighed is suspended to a wire passing up through the centre of the helix and fastened to the upper coil, which carries a pointer down a narrow distinct the collection of the collect slit in the cylinder, thus indicating on the gradu-ated sides of the cylinder the weight of the body. None of these contrivances of spring or levers are equal in sensitiveness and accuracy to the best-constructed beam balances. But the to the best-constructed beam balances. But the torsion balance, invented by Coulomb to measure minute electrical forces, is still more delicate. It consists of a brass wire, hung by one end and stretched by a light weight, carrying at its lower end a horizontal needle. Any force applied to one end of this needle, tending to rotate it horizontally, will be measured by the angle through which it causes the needle to move; that is, by the torsion of the wire. See ELECTROMETER. ELECTROMETER.

BALANCE OF POWER, called by the Germans politisches Gleichgewicht and Gleichgewicht der Staaten, and by the French, equilibre politique, is the system by which greater states are withheld from swallowing up smaller ones. Vattel (Law of Nations, b. iii. c. 3. s. 47) the defines it: "By this balance is to be stood such a disposition of one potentate or st.

The modern Austrian way to be desirable to predominate acress to be stood such a disposition of one potentate or st.

The modern Austrian way to be desirable to politischen Gleichgew defines it: "What is usuany term of power is that constitution suneighboring states more or less twith one another, by virtue of which among them can injure the independence of the balance of power of the modern

Europe as it began to shape itself in the century; not that it was entirely make the ancients before the irresistible pro Roman arms put any idea of balance question. It has been shown by the writer, David Hume, in his Essay 1 essay 7, and about the same time by ti man, Ludwig Kahle, that the Greeks before and after the Macedonian era, of upon the idea. Mr. Hume says: In politics of Greece, the anxiety with me the balance of power is apparent and pressly pointed out to us even by the historians. Thucydides represents the historians. Thucydides represents the which was formed against Athens, and produced the Peloponnesian war, me owing to this principle; and after the of Athens, when the Thebans and Lace nians disputed for sovereignty, we find a Athenians, as well as many other republic ways threw themselves into the lighter and endeavored to preserve the balance supported Thebes against Sparta till the victory gained by Epaminondas at Im after which they immediately went over conquered-from generosity as they pres but in reality from their jealousy of the querors. Whoever will rad mosthenes' oration for the Megalopoli see the utmost refinements on this that ever entered into the head of a ver or English speculatist." Polybia, wright already the Roman power was there along shadow over the land long shadow over the landscape of the notices the policy of Hiero, king of a who, though the ally of Rome, yet an ance to the Carthaginians, "esternia quisite both in order to retain his day. quisite both in order to retain his desired, and to preserve the Roman that Carthage should be safe; let by the remaining power should be she contest or opposition to execute every and undertaking; and here he acted window and wandered. wisdom and prudence, for that is as account to be overlooked, nor on force to be thrown into one hand ww But in the

citate the neighboring states from a their rights against it." But is the national relations between the seas Alexander, Perdiceas, Lysimachus, A Cassander, Eumenes, Seleucus, Ptoles gonus, and Demetrius, will be found ancient example of the application of the balance of power. Of all the Ptolemy of Egypt adhered most seasides of not aliming at unlimited aggranfor himself, and of opposing that as each of his rivals. The history of the Alexander, from 223 to 301 R C, of the buttle of Ipsus, is nothing but a contest between the principle of the power, and that of the division or be power. The battle of Ipsus, which allied kings, and ound, was an clear

Napoleon Bonaparte ut all these efforts of antiquity after of power were not sustained for a of power were not sustained for a long period, from generation to from century to century, were too and casual to entitle them to be to a system. They must be regardroaches and tentatives, interesting, seend fugitive and unsuccessful. ipire nor during the confusion and shings of the barbarian states which the Roman empire of the West, can or any conception of the balance of aring the latest centuries of the midie kings of France and the emperors y were too much engaged in their truggles with their great vassals, who allegiance, but were always their bitnies, to spare the concentrated attenergy upon international affairs necesginate and sustain a system of balance n Europe.—In Italy, then so far in the rest of Europe in intellectual, political development, the princes, and republics of that peninsula, from period of the 15th century, had se institution of an equilibrium for al regulation. As says Guicciardini: slousy of each other made them f every motion or measure which ived might in any way increase the their neighbors;" and he draws a cture of the long peace and general sich ensued upon the establishment nization. But this was too roca.

Il a scale to be deemed the parent of
avstem.—Not until Louis XI. of
Ruroundy and repressed the dukes of Burgundy and not until Ferdinand of Castile and d united almost the whole of modern er his sway, not until Maximilian in and Henry VII. in England and d consolidated the monarchical auas the ground ready for the applica-idea. This period, the last quarter h century, is rightly regarded as the of the modern system of equilibrium grown and thriven apace from that he present, and now bestrides the a colossus. The invasion of Italy by IL of France, and his claim to the Naples, in 1494, gave rise to the first pean combination of otherwise hos-for the repression of the ambition of ost all the Italian states, Maximilian, n emperor, and Ferdinand of Ara-aded their animosities, and drove the t of Italy. The emperor Charles v. y, Spain, Burgundy, the Netherlands, at transatlantic empire, 1519-'56, included of Europe. Francis I. e jealousy of Europe. Francis I., actually went so far as to ally him-the infidel sultan, Solyman the Mag-gainst Charles. The Turks at one trope, the kings of France and Eng-

land at the other, and the opposition of the Protestant princes in the centre, prevented Charles from realizing his ambitious schemes. The misfortunes of Philip II. the son of Charles V., in the Dutch Netherlands and in the expeditions against England and the English power in Ireland, effectually dissipated the fears Europe entertained concerning the overgrown power of the Spanish branch of the house of Hapsburg. The idea of a European equilibrium had now become sufficiently definite for Henry IV. of France to propose to Elizabeth of England at the commencement of the 17th century, a scheme for a federative congress, whose purpose it should be to maintain the peace of Europe in the same manner as the 5 great powers do now. The idea was impracticable in those days, and was entirely abandoned even as a project, on the assassination of that liberal and high-minded prince. The next potentate whose power gave general alarm and caused a coalition against him in the general interest, was the emperor Ferdinand II. of Germany (reigned 1619 '37). Gustavus Adolphus, of Sweden, appealing to the Protestent princes of (reigned 1619 '37). Gustavus Adolphus, of Sweden, appealing to the Protestant princes of Germany, subsidized by Richelieu, the French minister, and supplied with men by England and the united provinces of the Netherlands, achieved the task of humbling the power of the house of Austria. After the death of Gustavus, Occasions of Sweden and Richelieu of France. Oxenstiern of Sweden, and Richelieu of France, together forced upon the German emperor the celebrated treaty of Westphalia (1648), which relieved Europe from the fear of the house of Austria, and put an end to the 80 years' war. Austria, and put an end to the 80 years' war. The next general danger came from France. The invasion by Louis of the Dutch Netherlands (1672), brought about a coalition of Holland, the emperor of Germany, the elector of Brandenburg, and the king of Spain, against the French king. William, prince of Orange, was the hero of this war; but the peace of Nimeguen (1678) sealed the supremacy of Louis XIV. In 1686, a new anti-French league was formed, consisting of the Dutch republic, the German empire Spain. Denmark Sweden, and German empire, Spain, Denmark, Sweden, and Savoy, to which, after the revolution of 1688, which placed William of Orange on the British throne, England acceded with enthusiasm. France, exhausted in her finances, though sucwyck (1697), by which Louis XIV. restored most of his conquests. The will of the king of Spain nominating the second son of the French dauphin as his successor (1700), thus putting the powerful monarchies of France and Spain into the same hands and utterly destroying the European equilibrium, created the grand alliance and the war of the Spanish succession. The emperor of Germany, the duke of Savoy, the king of England, and the states-general of the United President Property of the United President Preside the United Provinces, united in this grand al-liance. The king of Portugal afterward joined the anti-French confederacy. Marlborough and Prince Eugene, of Savoy, were the great mili-tary leaders in behalf of the balance of power.

but the who took part in wars in which she cally a remote general interest. In 1748
37,000 men under Repnin, to the aid
Therese, of Austria. These men were pay of Britain and Holland. These two call states, Prussia and Russia, celebrated there entry into the rank of first-class powers by dealing the most terrible blow to the balance of power which it has ever suffered. The first when for instance commu When, for inst States capper of trade is DAY tween the BALANGUINI, or BARRINGS, the Malay archipelago, one of the S It is claimed by Spain as part of a of Zamboanga, in the island of M iles in lat. 5° 57′ 80″ N., long. 131° hat many the states accepted. between two other islets somewhat itself, called Samoosa and Parcol. I miles long and 1 broad. This said

by dealing the most terrible blow to the balance of power which it has ever suffered. The first partition of Poland (1771-'72) is admitted by every writer on this subject to be at war with the fundamental principles on which the equilibrium rests. The achievement of American independence (1783), though not generally reckoned by European writers as belonging to the history of the international balance, may well be included therein, inasmuch as it put an end to the overgrowth of British colonial power and British payal preponderance. The wars of

to the overgrowth of British colonial power and British naval preponderance. The wars of the French republic and empire (1793–1815) made the balance of power during that bloody interval an obsolete idea. At the congress of Vienna (1814–'15), it was the leading wish of Lord Castlereagh, the British plenipotentiary, to restore the kingdom of Poland, as included in the European equilibrium, in which he was seconded by Metternich for Austria, and Talleyrand for the French legitimate sovereign, but opposed by the representatives of the Russian

opposed by the representatives of the Russian and Prussian monarchies. The return of Napoleon from Elba put an end to this difference after the best

and in the renewed conferences after the bat-tle of Waterloo, the western powers did not insist upon the point. From 1815 to 1858, the

insist upon the point. From 1815 to 1858, the world was substantially preserved from any war of importance by the five great powers who preside over the destinies of Europe, namely, France, Great Britain, Russia, Austria, and Prussia.—In 1853, the invasion of the trans-Danubian provinces of the Turkish empire by a Bussian army, was declared by a congress of the great powers at Vienna to be a breach of the political equilibrium. In this declaration

nt, at Chizé and at recover a good fight was going en es of the Reformers, these to us d. The brilliant issue

name to the most daring and i proad. This sail name to the most daring and i pirates of the archipelago. In 186 tacked and captured by a Spanish infantry and artillery, with a squass steamers, and sixteen smaller an under the governor-general of the light of the projection.

and the resistance made will show dable character of these pirates. had 11 officers and 170 men killeds They stormed four redoubts, capts
non, mostly of small calibre, and

prahus; 450 of the pirates were ki to take quarter. Two hundred e rescued from slavery. The forts t the island were levelled to the s the island were levelled to the grorder to make it uninhabitable, the

were cut down to the number of 1 and 8,000. This was the most ment ever inflicted on Malayan European power; unless we exce of the Sakarran Dayaks by Raja

BALANZAO, FRANÇOSE DE I BALANZAO DE VAUDORÉ, one of the Protestant party in France, of the 16th century, died 1502, the doctrine of Calvin at Dress

nac and at Pa

ught with his wonted enthusiasm. or Ballard, Antoine Jerome, a ist, born at Montpellier, Sept. 30, uished himself in 1826, by the dismine in sea water, also by the explante of soda, which increased the wered the price of potash, which, M. Balard's investigations and disprincipally obtained from vegetas. His records of these interesting vere published in the Annales de physique. M. Balard, whose prolally was that of an apothecary, time attached as professor to the armacy and the college of Montgreat reputation obtained for him chair of chemistry in the faculty Paris, which he still holds, while ime he is titular professor at the vance, and for many years he was ith the normal school of Paris. was chosen a member of the ciences.

1, a little French village of about atts in the department of Herault. It distance of it are three warm

have many of the virtues without sagreeable taste of sea water, with s of about 129° F. in summer, and sr. iE, a maritime district of British mey of Bengal, bounded on the E. of Bengal, and adjoining the disapoor and Cuttack; area 1,890 sq.,000. Rice and salt are its chief

of Bengal, and adjoining the disapoor and Cuttack; area 1,890 sq.,000. Rice and salt are its chief scapital is Balasore, or Baleswara, on the Boorabullung, 8 miles from ad 123 miles from Calcutta; pop.

I, or Platten See, a lake in the f Hungary, which extends from to 47° 5' N., and from long. 17° E.; area about 110 sq. m., or, inarshy shores, about 138 sq. m. It waters of more than 30 small discharges through the Sio, which he Sarviz, an affluent of the Danalaton is constantly in a state of sient to cause waves. Its waters transparent, and abound with fine ound here called togas, frequently is pht, and has delicious fiesh of snowy Another kind of fish which reseming swarm in the lake during the h shoals, that the fishermen somelar loads in a single day from because of the same of the s

PHANO, a famous geographer, born ril 25, 1782, died at Padua, March e was first a professor of geograral philosophy in his native city; married an actress, he went in agal, where he became acquainted ding scholars and statesmen. He to the government archives, and VOL. II.—33

from the documents he collected, composed an interesting work entitled Essai statistique sur le royaume de Portugal et d'Algarve, comparé aux autres états de l'Europe, which he published at Paris in 1822. He followed his scientific pursuits in that metropolis, and 4 years later produced the first part of his Atlas ethnographique du globe, ou Classification des peuples anciens et modernes d'après leurs langues, a work of superior arrangement, in which he spread before the French public the result of the researches and disquisitions of the German philologists. He published afterward, in concert with several scientific men, statistical tables of Russia, France, the Netherlands, &c. He now gave all his attention to his Abrégé de Géographie rédigé sur un plan nouveau, a summary of geographical science, which appeared in 1832, and has been translated into nearly all the European languages. Then he retired to Padua, where he published, in 1835, his Essai sur les bibliothèques de Vienne. Beside the works above cited, we must mention La monarchie françaiss comparée aux principaux etats de l'Europe, Paris, 1828; Balance politique du globe, 1828; L'empire russe comparée aux principaux etats du monde, 1829; "The World compared with the British Empire," 1830; Statistique comparée de l'instruction et du nombre des crimes, 1829. Balbi was also a contributor to many important publications, L'Encyclopédie des gens du monde and Le Dictionnaire de la conversation. His works show a great amount of knowledge, thorough research, and skilful arrangement of material; but being utterly deficient in style, they are heavy and of difficult reading; however, they may always be advantageously and safely consulted.—Giovanni, called De Janua or Januensis, from his birthplace, Genoa, a Dominicury. He composed a kind of cyclopædia, which he called the "Catholicon." This book owes its celebrity principally to the fact that it has become one of the earliest monuments of the art of printing. The original edition is to be found under the title, Sum

BALBI, COUNTESS OF, a French woman, born in 1753, died at Paris about 1836, is only known by her familiar relations before the revolution with Louis, count of Provence, afterward King Louis XVIII. She was an unprincipled and foolish woman, and caused her husband to be legally interdicted, while she lived on the most intimate terms with the prince, whom she fascinated by her wit and sprightliness. Although he was not over-generous, she drew enormously on his purse, and more than once involved him in serious difficulties. When he left Paris she followed him to Mons, then to Coblentz; but there she soon perceived that she was about to

be supplanted by a new friend of the count of Provence, M. d'Avaray, and wisely decided to retire. She then went to Holland, where she fell in love with a French emigrant, and behaved so scandalously that she could no longer appear at court. She spent a few years in England, returned to France after the 18th Brumaire, and resided in the vicinity of Paris; but, being suspected of taking part in royalist intrigues, was ordered to Montauban, where she established a gambling house. In 1814 she attempted in vain to see her old lover, now become king. She succeeded better in 1815, had a secret interview with him, and from that moment until her death led a retired life in the capital.

BALBINUS, DECIMUS CELIUS, one of the 30 emperors who reigned in the single century between the death of Commodus and the acces-

sion of Diocletian, of whom only 2 died a natural He was a Roman senator of good family. wealth, literary tastes, and humane culture; in fact, an excellent specimen of the Roman gentleman. After being twice consul he was elected emperor by the senate in opposition to the soldiers' nominee, Maximinus. The senate outlawed Maximinus, and joined Maximus to Balbinus so as to have a double emperor. Maximus was an experienced officer, who had risen from the ranks, and was to conduct the military part of the government while Balbinus busied himself with the civil. Maximinus being killed by his own soldiers, Maximus enjoyed a triumph for putting an end to the civil war 241 B. C. Unhappy jealousies now broke out between Balbinus and Maximus which proved the ruin of both. Neither of them was liked by the army, though popular with the multitude of the city and trusted by the senate. The only reliance of Maximus against the Prætorian guards, who detested any emperor not elected by them-selves, was on a body of barbarian Germans. One day when the citizens had all gone out to witness the Capitoline games the Pretorians sallied forth to attack the hated emperors in Maximus their palace. sent an order for his trusty Germans, but Balbinus refused to countersign it from some inexplicable distrust of his colleague. The Prætorians burst unresisted into the palace, seized on the persons of the 2 emperors, dragged them to their camp with the emperors, dragged them to their comp with the most indecent ignominy, and, hearing that the Germans were coming to the resons, they put

BALEO, CESARE, count, an Italian statement and author, form in Turin, Nov. 21, 1789, where he died, June 3, 1853, and where, on July 3, 1856, a menument, by the artist Vela, was exceed to his memory. Through the favor of Napoleon, he was appointed anditor to the French privy connell in 1867, and afterward became secretary to the French commissioners charged with the organization of Turonay and the papal states. In 1813 he was promoted to the office of commissioner of Ryria,

them to death. • ecuted.

The assessine were mover p

He wrote a hi Charlemagne, "Exposition Lombardy," f the name of (was not firml latter year, w appearance. independence popular heart, lution in whic inent part as : His next worl storia d'Italia of Italy, from only inspired also distingui though he had opposed the d adhered to threw the ent into the scale against Austri ent cabinets v promulgation 1848, and wa personally co He became a mento, a leadir a constant su tion. BALBOA, ary in Americ

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BALBOA,
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beran to enter

o the great discontent of his men, le the trade. On this they deposed tole party fell into disunion. Some nciso, others declared for Nicuesa, iginal leaders to whom the grant of been made by the crown, while determined to follow the fortunes A vessel with stores belonging to ng arrived determined the band to h of that leader, who was found at He hastened thence to the new there, against Balboa's advice, he as at once seized by some of the who put him on board a small vesf his adherents. Nicuesa was supplements and best as a supplementation of the supplementation of th

Balboa now had leisure to renew The Balboa party proved successo was condemned to imprisonment llegally taken Ojeda's command. hed him from Darien, and sent tive (Zamudio) to Spain to ex-sition of the Spanish settlements, is own conduct. He now under-dition into the interior, and gained of an important country to the which Balbon sent word to Columaniola, and asked reinforcements t be able to act on the intelligence. and conciliatory policy won upon of the Indians, and he was able to thmus of Darien, and on Sept. 29 ummit of a mountain from which 'acific. He threw himself on his ed God for permitting him to be r of this great ocean, and erected a pot. Descending to the sea-shore he took possession of the whole ame of the Spanish crown. After to recruit, the party returned to which he sent the news of his The Spanish court were o receive intelligence from Balboa. ent and interested statements of eated a strong feeling against him, s Davila was sent out to Darien ions to supersede Balboa and to rebel. On Davila's arrival these re carried out, and Balboa was a heavy fine for superseding Enw arrivals in their conduct to the heir impatience to grasp the golden r enterprise, soon obliterated the ments of the Indians toward the oduced by Balboa's humane and r. An active hostility was thus ich reduced the settlement to great

Spanish court, at length made merits of Balboa, made him deputy rias Davila; but the latter for a to give him the appointment, and a trusty friend to Cuba to raise a mteers with whom he might form sement. This reached the governowas so irritated that he deternish Balboa, but the counsel of

Bishop Quevedo prevented the breach. He, however, continued too jealous of Balboa to give him employment. In 1517, however, the governor determined on erecting a new settlement on the Pacific coast, and sent Balboa to build vessels. The vessels were built under great difficulty, and new islands were discovered. Rumors reached him of the supersedure of the governor by Lope de Sosa, and Balboa sent Garalito, his former friend, to Darien, to ascertain the news and to procure further supplies. Whether from native envy or from false statements of Balboa's intentions, Pedrarias Davila charged Balboa with a design of sailing in quest of new discoveries on his own account and recalled him. On his return Balboa was arrested, tried for treason, and condemned to be executed. In his last hours he protested that he was unjustly condemned, that he had ever been a loyal subject, and had no thought but of increasing the power and majesty of the crown of Spain. He was beheaded on a trunk of a tree which served for a block, and his corpse was exposed in the place of execution more than 12 hours. Four of his faithful friends were executed with him.

BALBUENA, Bernardo de, a Spanish poet and prelate, born in 1568, at Val de Peñas, in the ancient province of Mancha, died 1627, in the West Indian island, Porto Rico. In early life he accompanied his family to Mexico, where he was educated at a theological seminary. He distinguished himself, and when only 17 years old he carried away a prize from 300 competitors. In 1608 he visited his native country, but soon returned to the new world. Until 1620 he officiated at Jamaica, and thence to the time of his death as bishop of Porto Rico. He is the author of El Siglo de Oro, the "Age of Gold," a pastoral romance, the scene of which is laid in the new world. The honor of republication was conferred upon this work by the Spanish academy, in 1821. In 1609 he wrote a poetical description of Mexico, under the title of Le grandeza Mejicana, the "Grandeur of Mexico," which was also republished by the academy in 1821. He further composed various lyrical poems which are annexed to the academical editions, and several other works which have not come down to us. His most famous work is an epic El Bernardo (in 24 books), which first appeared at Madrid, in 1624.

BALBUS. I. L. Cornellers sometimes sur-

which first appeared at Madrid, in 1624.

BALBUS. I. L. CORNELIUS, sometimes surnamed Major, to distinguish him from his nephew, was born at Gades, an ancient city of Iberia, in the 1st century. In the Sertorian war the Gadæans supported the cause of the senate, and the youthful Balbus served his first campaign under Q. Metellus Pius and Pompey. For his conduct in this war the privileges of a Roman citizen were conferred on himself, his brother, and his nephews. In 72 B. C. Balbus removed to Rome, where he is said to have insinuated himself into the Crustuminian tribe, by prosecuting one of its members for corruption, and thus acquiring that fallowship

self more closely to the fortunes of Cassar than to those of Pompey. In 58 B. C. he attended Cassar into Ganl, and was again applicated projectus fubrum to his legions. In the period of the Gallic wars he spent much of his time at Rome, where he had the care and control of Cassar's private property, and acted as agent for the sale of the plunder taken from the enemy. In 55 B. C. his own foes and the foes of the triumvirs sought to raise an accusation against him of having assumed illegally the privileges of a Roman citizen. When the trial came on, Pompey and Crassus, the colleagues of Cassar, and Cicero, the common friend of at least 2 of the triumvirs, appeared to defend Balbus, and fully established his title to those privileges. The oration of Cicero in his defence his services with the office of g questor to Asinius Pollio in fin 44 and 43 B. C., he greatly end proved his native city. But hi duct during the questorship the He plundered and oppressed to who had not the good fortune to defrauded his fellow-soldiers, and to Africa with deserted and fied to Africa with wealth. For 20 years after his is known of Balbus. He that appeared as proconsul of Africa ing this office he gained a vi Garamantes, which subsequently the honor of a triumph—the fir by one not born a citizen of was now rich, and to comm Augustus he built a theatre at privileges. The oration of Cicero in his desence is still extant. Balbus did not bear arms against the Pompeians in the civil wars, but continued at Rome, and even attended to the affairs of some old friends who had followed the fortunes of which was supported by pill was dedicated in 18 B. C., and a easure to the emperor, pleasure to the emperor, Tiberius, then consul, to n of his early patron. All his exertions were directed, however, to promote the success of

allegiance to Pompey. Balbas a throughout all the campaigns and after their termination was

his services with the office of 1

to the Iberian army. During the first trium-virate he affected the part of a neutral, but it was nevertheless evident that he attached him-

If more closely to the fortunes of Casar than

of it by paying Balbus the comp his opinion first of all the sens term of office. III. Q. Lucrum Carreson, nowever, to promote the success of Cassar. He opened a correspondence with Cocero, seeking to induce him to return to Rome and declare in favor of Cassar. This correspondence proved a failure in the first instance, but after the battle of Pharsalia Cicero reopened it and even condescended to entreat stoic philosopher, whom Cicero most illustrious of the contempo phers of Greece. He was the Lucilius, the jurist, and the pu In Cicero's dialogue De Nature Balbus to mediate between him and the concilius is the expositor of sto queror. This office was readily undertaken by the favorite, and the result was all that Cicero could have desired. On the assessination of This office was readily undertaken by mysterious subject. IV. L. Oc guished Roman lawyer, con Cicero. As a judge, whether in vate cases, he bore the very his The manner of his death was Ossar, Balbus retired to his country-seat, where he remained until the arrival of Octavianus in Italy. He then hastened to Naples to meet the heir of his departed patron, whom he accompanied to Rome, and who conferred on him in time higher offices and greater horse than he had ever received at the hands of the art. He attained under the results of Octable to the the triumv Octavianas, had doomen to death. Cname s in the fatal cath his ho and had already

next appeared as a salatic victories. ms next appeared as a candidate for the chip, which, however, he failed to obtain, the sustained by the influence of Pompey. The must have been more successful afterfor in 59 B. C. he was prætor, and, in Howing year, governor of Cilicia. On collowing year, governor of Cilicia. On outbreak of the civil war in 49 B. C., he the Pompeians, and distinguished himativity in raising soldiers for the con-After the overthrow of his party at Tablia, he retired into Asia, and there signalhi meelf by attempting to plunder the tem-Diana at Ephesus. The sudden arrival mar, however, frustrated this attempt, and to devise other expedients for out funds. Balbus was one of those g out funds. Balbus was one of those were banished by the dictator because of devotion to the Pompeian party. But mediation of Cicero obtained the repeal of centence, and he returned to Rome in 46 He wrote a work on the events of his times, an extract of which is given in onius.

ALCAS, or Balsas (Portuguese, balsa, a stational parties of Brazil, which begins in the Lima trades, and after a course of 200 miles (for third of which it is navigable for cances), distince into the Parnaiba or Paranahiba, in the 15'S., long. 45° 10'W.

BALCOMB, a parish of England, county of Balsas. It has a tunnel of 1,134½ yards in the through which passes the London and

agth, through which passes the London and

thton railway.

BALCONY. Balconies are formed nearly a level with the floors of rooms, and supportcan cantilevers or brackets, and sometimes columns of wood or stone. The etymology the word has been frequently traced to the back βαλλειν, to throw. This rests upon a presumption that balconies were built origially for purposes of defence, the enemy being thacked with missiles thrown upon him from the balcony. The Latin word is balcus or palhe belcony. Turkish bala-khaneh, the German Balcon. The the of balconies is comparatively modern, arthough there is no doubt about their existence in times of antiquity. Winckelmann, the great German writer upon art, refers to the fact that Greece every private dwelling-house had sentrivances which, although then designated different terms would be called balcoinder different terms, would be called balco-lies in our day. In Spain, Italy, and South America, they are used for sitting, walking, chatting, and flirting, in warm summer evenings; they are not much found in northern coun tries, where the nature of the climate does not call for such romantic contrivances. Upon Boccaccio and Bandello, the great Italian novel-lats of the 16th century, the poetical utility of balconies was not lost, and entertaining balcony acenes abound in their stories. Shakespeare took his plot of Romeo and Juliet from one of Bandello's novels, and the balcony scene exhibits, with that power of genius of which the great

English dramatist alone was capable, the beauty of a balcony, when two young lovers like Juliet and Romeo make it the witness of their passion. In the modern theatres the name of balcony seats is applied to places from which one can best see and best be seen, consequently the most sought for and most expen-

sive seats of the house.

BALDACHIN (Italian baldachino), an architectural construction of wood, bronze, or marble, raised in the form of a crown upon 2 or more columns, and designed to serve as a covering to an altar. That of the church of St. Peter at Rome is the most magnificent of St. Peter at Rome is the most magnificent of the works of this kind.—The name baldachin is also given to a rich tapestry used in the ceremonies of the Roman Catholic church, and hung above the pontifical chair. It is commonly of the richest materials, and adorned with gold, and its use is traced back to the earliest ages of Christianity.

BALDASSERONI Groven prime units.

BALDASSERONI, GIOVANNI, prime minister of Tuscany, born in 1790, at Leghorn, ingratiated himself with his sovereign by his administrative talent. After holding various subordinate offices at Pisa and Florence, he was intrusted with the management of the was intrusted with the management of the finances, and officially appointed minister in 1847. He was chosen a member of the Tuscan senate, but had soon to withdraw before the revolution of 1848, which ousted his party from power. As soon, however, as the political excitement subsided, he was appointed premier of the new anti-revolutionary administration, and, as such, took a part in the abrogation of the constitution and of the liberty of the press. He continues to hold this office, while at the same time he officiates as minister while at the same time he officiates as minister of finance. His administration in the latter department was signalized by the negotiation of a loan of 80,000,000 lire, and by an increase of taxation. He enjoys the reputation of a shrewd financier, and a subtle politician, but is considered to be deficient in the higher qualities of attacements.

considered to be deficient in the higher quali-ties of statesmanship.

BALDAYA, AFFONSO GONÇALVES, a Portu-guese traveller of the first half of the 15th century, was employed by the infant of Portu-gal, Dom Henrique, on the explorations of Cape Bojador, and generally of the coast of Africa. He distinguished himself by his intrepidity

He distinguished himself by his intrepidity, and succeeded in defeating, with the assistance of his companions, Heitor Homem and Diogo Lopez d'Almeida, the Moors, who impeded their progress along a river, which Baldaya called Rio-do-Ouro.

BALDE, JAKOB, a German Latin poet, born at Ensisheim, in Alsace, in 1608, died at Neuburg, on the Danube, in 1668, was court-chaplain of the prince electoral of Bavaria, and distinguished himself by the excellence of his Latin poetry. Herder called attention to the beauty and genius of his lyrical productions, many of which he translated.

BALDI, BERNARDINO, an Italian linguist and mathematician, said to have written nearly 100

Erfurt, May 18, 1788, Jan. 21, 1804. He was of the Prussian military and published, in 1774, as that prevail in armies. physician, born 1 and died at ous injury to the whole system general health of the body, and general health of the body, and skin, has been attended to, the moistened with resement water brushed, as a daily stimulant to of the hair in the scalp; or ruthe oil of sweet almonds, in equal be rubbed on the scalp with the hand, once or twice a week, as a lant to the skin and the secret Over-stimulation must, however, it would produce a contrary which is desired. These means: made super hospitals n a treatise ou He exerted a pur uninfluence upon the pros-perity of the university of Marburg, and counted Sommering and Blumenbach among his pupils.

BALDNESS, or CALVITY, want of hair on the top and back of the head; loss of hair, from disease or natural decay in the secreting follicles it would produce a contrary which is desired. These means or piliferous glanduls of the scalp, which include the roots of the hair, and are the source which is desired. I have means to be used with moderation, not los every day with equal stimul brushing with water or a little sufficient more than half the time. of its growth. These roots or bulbs are seated in the cellular connective tissue under the skin.

Some of them give rise to several hairs, but as a general rule, each hair has a distinct bulb or root. The hairs of the head, and other parts of the bedy, grow only from below by a regular propulsion from the root, where new matter is continually added. Within the bulb the hair commend a mixture of lard-oil hartshorn, as a good stimulant if the hair; five parts of lard-oil the horn; but it is rather strong, and sparingly. Lavender water and r with careful brushing, are excell and now and then a little rum a separates into several fibrills or small fibres; the hair varies in softness, fineness, color, quan-tity, and general character, according to the and now and then a little rum a used for extra stimulation.

BALDO MONTE, a mountain in Lombardy, on the east side of it is composed mainly of horiz marble and calcareous tuffa, an green sand called the sand of Ve BALDOVINETTI, Alesso, painter, born in 1424, died in 14 of Ghirlandaio, who, in his tur master of Michel Angelo.

BALDRIC (Fr. baudrier), a m leather, much used by warriors in as feudal times. It is pendant from tity, and general character, according to the differences of age, temperament, and climate. Some constitutions or temperaments lose the hair of the head, and become bald, more commonly than others; and some occupations or professions seem to induce baldness more than

thers, in persons of the same race and tempera-nent. The northern races are more liable to baldness than the southern; and fair complexions more than dark-haired races, inhabiting the same localities. A hot, dry skin is the chief cause of baldness, by exciting the roots or follicles too much, and thus exhausting prematurally their powers of secretion. This may as feudal times. It is pendant from and sustains a sword. In the only and Antonino, the common sold solicies too much, and thus exhausting prematurely their powers of secretion. This may sometimes be caused by fevers, and in that case the hair falls rapidly for want of functional activity in the bulbs; but a little time and moderate stimulation restore the secreting powers of t follicles, and the hair is reproduced. In

sented as we ng the common sold sented as we ng the common g belt, while see officers are distin-baldrellus. In France and Germ Merovingian: d Carlovingian d

BALDWIN 519

as the son of Odin, by Friggs, band of Nanna. He was wise, nt, and beautiful. His dwellidablik, the most delightful and in the Scandinavian Olympus. terrible presentiment that His anxious mother, Frigga, eation, animate and inanimate, reation, animate and inanimate, i made every god, spirit, mounand element, swear that they im no harm. She overlooked trasitical devil called Mistel or the mistletoe, which appeared little individuality about it to d. Loki, the god of malice, got ous Hodur, an extremely strong l, to throw Mistilteinn at Baldur, ated the brilliant god, and let out oul. Hermodur, the brother of to hell on his steed, Sleipnir, to oul. extradition, like Orpheus for Euryanted the request on the condition ing would weep for Baldur. form of Thock, an old giantess, sep. So the gods had nothing else celebrate a tremendous wake over Baldur, which they brought in a ver the sea. But the ship was t, not having a windlass, the rinities could not drag it ashore. to Jotunheim, the home of the or material aid. The giant world; Hirrokin to do the job. She on a wolf, with serpents for reins, the ship so doughtily, that the trembled. The ship was brought by Hirrokin. The gods got Bald the wake was as upcoarious as nd the wake was as uproarious as sen wished. Baldur's faithful wife, fixed herself on her husband's

When Hermodur went down to in Hela's dominions, Baldur gave the ring Draupner for Odin, and ets for Frigga, and for Fulla, her ring. The Saxons in England z ring. The Saxons in Linguistai. The Wends Slavonized him and venerated him as the god of Iceland, a man of talent is still said n-Baldr. Baldur's son was the ial god, Forseti.

V. I. A central county of Georgia,

he north by Little river, intersectconee, and comprising an area of iles. The surface in the southern bly level, in the north, more hilly. r of the soil is equally varied, the being highly fertile, while much a other places is nearly worn out.

re grain, potatoes, cotton, peaches, The productions in 1850 were els of Indian corn, 20,962 of oats, et potatoes, and 4,443 bales of cot-were 6 churches, 5 newspaper ofpupils attending schools. Named Abraham Baldwin, United States Georgia. Capital, Milledgeville.

Pop. in 1855, 7,520, of whom 4,352 were slaves. Value of real estate in 1856, \$938,652. II. A southern county of Alabama, situated at the mouth of Mobile river, bordering on Florida and the gulf of Mexico, and comprising an area of about 1,900 square miles. It is bounded by Mobile river on the west, by the Alabama on the north-west, and by the Perdido on the east. Its surface is level or moderately uneven. The soil is sandy and unproductive, but supports a valuable growth of pine timber. Cotton, corn, and rice, are the chief staples. In 1850, the productions amounted to 628 bales of cotton, 74,801 bushels of Indian corn, 23,071 of sweet potatoes, and 52,075 pounds of rice. There were 5 churches, and 88 pupils attending public schools. Capital, Blakely. Pop. in 1850, 4,414, of whom

2,218 were slaves. BALDWIN I., king of Jerusalem, born in Flanders, in 1058, died in 1118. With his brother Flanders, in 1058, died in 1118. With his brother Godfrey of Bouillon, he put himself at the head of the first crusade in 1095, and after violent disputes with Tancred, obtained possession of the principality of Edessa. He is alluded to by Tasso, as "the ambitious Baldwin of Edessa, who aspires only after human grandeur." In 1100, he succeeded Godfrey upon the throne of Jerusalem, and during his reign conquered Cæsarea, Ashdod, Acre, and Tripoli, but failed to defend Ascalon against the Mohammedans. II.. surnamed Du Bourg, cousin and successor II., surnamed Du Bourg, cousin and successor of the preceding, died Aug. 21, 1131. He passed his life in military adventures, and feats of valor, and his arms enlarged the boundaries of the kingdom of Jerusalem. In 1124, with the help of a Venetian fleat he convended with the help of a Venetian fleet he conquered Tyre, and he was one of the knights who united in founding the order of the Templars. He was in founding the order of the 1emplars. He was held a prisoner by the Turks for several years. III., king of Jerusalem, grandson of the pre-ceding, born in 1130, died Feb. 23, 1163. He was accounted a model of knighthood, as it existed in the period of the crusades, found-all on fantastic conceptions of boror right ed on fantastic conceptions of honor, right, reverence, and love. He defeated the sultan of Aleppo, at Jerusalem, in 1152, and obtained of Aleppo, at Jerusalem, in 1152, and obtained so great renown, that even the Saracens sought to serve under his banner. He increased his power by a marriage with Theodora, the daughter of the Greek emperor, Manuel, and besieged and conquered Ascalon in 1153. IV., king of Jerusalem, nephew of the preceding, born in 1160, died March 16, 1186. Though of a sickly frame, he had the valor of his race, and he signalized the beginning of his reign by a defeat of Saladin. He subsequently associated Guy of of Saladin. He subsequently associated Guy of Lusignan with himself in the government, a measure which was very unpopular, and caused dissensions among the barons of the empire. Saladin availed himself of the internal anarchy of the kingdom in the latter part of his reign to push his own conquests in every direction, and one of the last acts of Baldwin was to send a messenger to the West to solicit the aid of European Christian princes.

BALDWIN, archbishop of Canterbury. He

se he indicated excellent abilities, and

ntegrity.
VIN, Thomas, D. D., an eminent Baper, was born in Norwich, Ct., Dec. 28, Aug. 29, 1825. His parents w ere poor, rly culture was very limited; yet he e advantages of the public school in his n, and being studious and inquisitive its, he acquired a prominent standing young townsmen for scholarship. y age he removed to Canaan, N. H., ring a religious awakening, he was ring and soon afterward became connecthe Baptist church. He had been the faith of the Congregational which his parents were members, only after a severe mental struggle me to the decision to unite with the But having embraced their views, cted himself with them, by public and baptism, he became known at e of the firmest and most energetic of their tenets, and one of the ablest constant advocates of their civil s united with the church in Canaan In 1782, he preached his trial sermon church, and was immediately theresed to preach. In 1783, he was orpastor of the church in Canaan, served in that capacity, with great, for 7 consecutive years. His fame sched Boston, the second church in which had become vacant by the reof their pastor, in 1790, invited Mr. o fill that important post. After o fill that important post. After flection, he accepted the invitation, aued to serve them till his death, ared to serve them till his death, ared while attending the commence-Vaterville college, at Waterville, Me. mencing his labors in Boston, Mr. ose rapidly in the public estimation, listinguished rank as a preacher, and be regarded as one of the first men in ination. He took a prominent part stablishment of Waterville college, of Columbia college, Washington, b was an enlightened and efficient of the cause of liberal education gendid much to elevate the character ple in this respect. Beside his pas and other efforts in the cause of ning, he was called more than once to ning, he was called more than once to vil capacity. He was several times, long pastorate of 35 years in Boston, the state legislature, where he con-argely to emancipate other religion-bondage to "the standing order." iso an efficient member of the con-sected in 1821 to revise the constitu-lassachusetts. His published works a volume in defence of the peculiar the Baptists, and several sermons on special occasions. on special occasions.

John, bishop of Ossory in Ireland, n by his collection of British biogratled Illustrium Majoris Britannia Scriptorum Catalogus, born at Cove, in Suffolk, Nov. 21, 1495, died at Canterbury, in Nov. 1568. After embracing Protestantism, he was obliged to flee to Flanders, to escape persecution. Upon the accession of Edward VI., he returned, and was made a bishop in 1552, in which capacity he labored zealously, but made few proselytes. The death of that monarch formed him to floate the continent area. few proselytes. The death of that monarch forced him to flee to the continent once more, and he remained abroad until Queen Elizabeth ascended the throne. In 1560, he was made prebend of Canterbury. He was the author of numerous works. So severe were his attacks upon the Catholic church, that his writings were prohibited as heretical in the highest

ings were prohibited as heretical in the highest degree.

BALEARIC ISLANDS, a cluster of islands in the Mediterranean, forming one of the provinces of Spain, situated opposite the kingdom of Valencia, between lat. 38° 36' and 40° 6' N., and long. 1° and 5° E. The most important are: 1, the Majorca, the chief and nearly the centre of the group; 2, Minorca, on the E.; 3, Tviza, on the S. E. of Majorca. Then come 2 smaller ones, Formentera, S. of Tviza; and Cabrera, near and S. of Majorca. These islands, which the Greeks called xospates, were at a very early period settled by the Phænicians, then by the Rhodians; next came the Carthaginians, who extended their sway over all the western part of the Mediterranean. Their leader, Hanno, founded 2 towns, Mago (Mahon) and Tamnon (Ciudadela) in Minorca. The islanders were most expert slingers, and as such did excellent service durslingers, and as such did excellent service durslingers, and as such did excellent service during the Punic wars; they were a little later noted as successful pirates, and to get rid of them, the Romans, in the year 128 B. C., sent a fleet, under the command of Quintus Metellus, who subdued them, and hence obtained the surname of Balearicus. He was also the founder of 2 cities in Majorca, Palma, the present capital and Pollentia now Pollenza. For 51 cenital, and Pollentia, now Pollenza. For 5½ centuries these islands remained under the Roman turies these islands remained under the Roman dominion, when, about the year 428, they became an easy conquest for the Vandals who had just subjugated the northern coast of Africa. On the destruction of the Vandalic kingdom by Belisarius, they submitted to the Eastern empire, from which they were afterward wrested by the Goths, the conquerors of Spain. They passed with the peninsula under the yoke of the Moors in 714; toward the end of the same century, in 796, they were taken by Charlemagne, who kept them for 6 years, when they were retaken by the Moors, who retained possession of them until nearly the retained possession of them until nearly the middle of the 13th century. They were then conquered by James I. of Aragon, who gave conquered by James 1. of Aragon, who gave them, as a part of the newly created kingdom of Majorca, to his second son, Don Jayme. After the death of the last king of that dynasty, the Balearic islands returned to the crown of Aragon, the destiny of which they henceforth followed, becoming in time an integral part of the Spanish monarchy. The climate of

FOUR, ALEXANDER, a Scotch author, t Menkie, in Forfarshire, March 1, 1767, ept. 18, 1829. He entered upon a mer career, and near Dundee, assumed the ement of a branch of a large London

The panic of 1815 plunged him into uptcy, and he then devoted himself seto literary composition, with which he en long accustomed to amuse his leisure. blished in 1819 his first novel, entitled pbell, or the Scottish Probationer." The year he edited the works of his friend, d Gall, and began to contribute poems des concerning Scottish manners, to the burgh Review." In 1820 he published a burgh Review." In 1820 he published as of poems, and in 1823 his second long appeared, entitled the "Foundling of torn, or the Smuggler's Cave." He held tion as clerk in a publishing house of trgh, and, in 1827, received from the natreasury, through the kindness of Mr. 18, a donation of £100. His last work was lentitled "Highland Mary," and an edition select works was published after his death, the title of "Weeds and Wild Flowers."

FOUR, ANDERW, a Scotch naturalist of th century. He had great wealth, and large part of his fortune in founding a cal garden and museum at Edinburgh. me has been given to the Balfouria, a tribe to native in Australia. s native in Australia.

FOUR, Sir James, a conspicuous actor Scottish civil wars, which ended in the nament of Mary, queen of Scots, died in Originally brought up in the Roman ic church, he had espoused the Protestant and in 1547 was with other reformers prisoner and sent to France. On Knox's ion and return to Scotland, the cause of On Knox's tantism was apparently declining, and a reason Balfour adjured its heresies, as again gathered into the true fold. Allities and tact were useful, and he peedily appointed to some important. As he enjoyed the confidence of the ament, he was high in effice on the ar-

mient, he was high in office on the ar-Mary in Scotland, and was with the at Holyrood on the night of Rizzio's astion. Popular rumor assigned to Balfour inent share in the murder of Lord Darnary's husband, but he contrived to outary's husband, but he contrived to out-l suspicion. In 1567 he was appointed a of Edinburgh castle. A change in Bal-convictions was forced upon him, for he at a powerful party had been formed: Mary; and the policy of an alliance hem overcame all scruples. He held the of Edinburgh against the queen, and was sans of delivering up Mary's letters into nds of her enemies. He afterward sured the castle for various considerations.
breaking out of the civil war, Balfour with the regent Murray, but after Mary's nament in England, he took part in cones for her restoration, although at the rofessing adherence to the regents Murray

ray and Morton. His last public act was furnishing the evidence of Morton's guilt in the murder of Darnley, for which Morton was condemned and executed.

BALFOUR, JAMES, a distinguished Scotch lawyer and lecturer on moral philosophy and law in the university of Edinburgh. He wrote 2 pamphlets against David Hume's deistical

law in the university of Edinburgh. He wrote 2 pamphlets against David Hume's deistical writings, which procured him Hume's esteem. He died March, 1795, at the age of 92.

BALFOUR, WALTER, first a minister in the church of Scotland, afterward a preacher in the Universalist denomination in the United States. He was born in the parish of St. Ninians, Stirlingshire, Scotland, about 1776, died Jan. 3, 1852, in Charlestown, Mass. He was educated for the ministry of the Church of Scotland by Mr. Robert Haldane, who, from a benevolent desire to spread the reformed gospel in Scotland, devoted a part of his large fortune to the education of 25 young men for the ministry. After preaching a few years in his native country, Balfour emigrated to America. He was still in the faith of the Scottish kirk, but at the age of 30 became a Baptist. A few years later some circumstances, among which he always reckoned the letters of Prof. Stuart of Andover to the Rev. W. E. Channing, written in 1819, led him to think of the doctrines of Universalism, and finally to embrace them. In 1823, he avowed his opinions, and was from that time a laborious writer and preacher in support of the doctrines he then espoused.

BALFROOSH, an important commercial town of Persia, in the province of Mazanderan, situated on the river Babbool, about 12 miles from the southern shore of the Caspian sea; lat. 36° 37' N., long. 52° 42' E. The country around is low and marshy, though fertile; but, notwithstanding its position, apparently so un-

around is low and marshy, though fertile; but, notwithstanding its position, apparently so unfavorable to maintaining a large inland trade, it is inhabited chiefly by merchants, mechanics, and their dependents, and no town of Persia, unless perhaps Ispahan, makes a finer display of merchandise. The city is built in a forest of lofty trees, by which the houses are so completely hidden, that, except in the bazaars, it has no appearance of being a large town. Its has no appearance of being a large town. Its streets are wide, and though unpaved, are kept clean; the houses substantially built, and roofed with tiles. The bazaars constitute the only objects of interest; they consist of ranges of well-built shops extending upward of a mile, and filled with wares of all descriptions. There are 10 principal caravanseries, several of which are let as warehouses; the place also has upward of 80 colleges, being as much addicted to learning as to commerce. There is an excellent learning as to commerce. There is an excellent road leading to Meshedi-Ser, the port of Bal-froosh on the Caspian. The river is crossed by a bridge of 9 arches. In 1822, when Fraser visited the city, it was supposed to contain 200,000 inhabitants. It has since been ravaged by the plague and cholera, and probably does not contain one-fourth that number. It is a very unhealthy place, even now.

able in being suspect to a tidal led natives readily obtain from these injustion the readily obtain Concerning the Beauty and Excellency of Moral Virtue, and the Support which it receives from the Christian Revelation." In 1729, he became natives readily obtain from them irrigation, the main cause of the griveness of the island, which experiences to the island, which experiences to the island, which experiences to the island of the island of the island the number of in 1818 to be 987,500. The Baliclaim to have 241,000 men able 1 and this, allowing them to be on whole, would give 1,205,000 souls. Of rice in 1845 was 830,000 picm tons and it is now estimated at 1 Virtue, and the Support which it receives from the Christian Revelation." In 1729, he became vicar of North Allerton, in Yorkshire, in which preferment he remained till his death. His next important publication was entitled "Divine Rectitude; or, a Brief Inquiry Concerning the Moral Perfections of the Deity, Particularly in Respect to Creation and Providence." His controversial works, which are numerous, are written with marked courtesy. He committed to the flames a large number of his sermons, that 82,000 tons. Large quantities of dendeng, or jerked mest, are also a rice, chiefly to Singapore and Cabullocks to Java and Maurities. his son, who succeeded him in the ministry, might be obliged to exercise himself in compomight be obliged to exercise himself in composition, and not depend upon his father's labors.

BALGUY, Thomas, son of the preceding, an English divine, born at Lamesly, Sept. 27, 1716, died at Winchester, Jan. 19, 1795. He obtained the living of North Stoke, in Lincolnshire, and was subsequently made archdeacon of Salisbury and Winchester. In 1781, he was offered the histopric of Gloroseter, but declined are hides, cotton of a fine staple, to horns, tobacco, cocoanut-oil, sape safflower. The chief imports are I colored listing cloths, Turkey-re um, gold thread, iron, steel, les um gold thread, iron, steel, lead, stones, arrack, raw silk, time or mirrors, and trinkets. The impe though differing in the several prithe island, will average about 4 purchases, to be paid to the princludes all charges. The only currish dollars and petit or pickin, a coin with a hole in the centre for offered the bishopric of Gloucester, but declined

lakes in the mountains, from 3

and 8

circumference, and some 50, and ct

in depth.

,, in what was termed the Bangorian

works, and attacked the principles

Ho

offered the bishopric of Gloucester, but declined it on account of the delicate state of his health. He held the archdeaconry of Winchester till his death. He was the author of various books, among them a very able treatise entitled "Divine Benevolence asserted and vindicated from the Reflections of Ancient and Modern Skeptics" (London, 1782).

BALHARRY, a town and fortress of Hindostan, in the presidency of Madras, 187 miles from Seringapatam; pop. about 80,000. The district of Balharry has an area of 13,056 sq. m., pop. 1,229,599. It has been held by the British since 1800.

BALI, a remarkable island of the Malay of stringing together, worth abo no good harbors, but during the soon the roadsteads of Baliling. Sangsit, on the N. coast, and demonsoon, Ujong, Kasumba, and on the sanger of the sang BALI, a remarkable island of the Malay archipelago, although only of the 4th magnitude in extent. Van Carnbée, the accurate hydrographer of Netherlands India. estimates its sud southern e ancho nor els of the large fauna consists slefty of will are very numer a and a small :

A few nava hean med fices 57.8 myrian or 1.

claimed for them; but there is no historridence to substantiate this. Language, , and customs, very clearly indicate that linese are descended from colonists from which was once a great seat of the Hindoo

The Balinese are, however, much supetheir progenitors—are larger, stronger, we lighter complexions. The countenance men shows more intelligence and resoluan is to be seen among any other people archipelago, and the women are noted pleasant looks and industrious, amiable ter. The custom of the latter in wearing vers no higher than the armpits, displays very fine busts to the admiration of the an stranger. The terrible superstition of nation is practised, but only partially the noble classes, and without the chief of the Hindoo suttee-the Balinese widinvariably poniarded by her nearest rel-before her body is burned.—The Balinese ilful artificers in iron and gold, and manre some fire-arms. Their nobles have y tastes, and many have large libraries of mostly translations from Javanese and iterature. They write with a steel point is lontar leaf (borassus flabelliformis).—

h it is justly said that a larger degree of y than is usually to be found among must exist among the middle and lower to have promoted the present industry marked by promoted the present industry markable productiveness of the island, many petty political subdivisions are evirude and semi-barbarous condition. of a rude and semi-barbarous condition.

are 7 principalities or rajahates: Karang
, pop. 150,000; Baliling, 130,000; Badong,
0; Klonkong, 97,500; Tabanan, 180,Mengooi, 160,000; Gianjeer, 160,000.

rince of Klonkong, though having the
st territory, is regarded with especial rev, and wields a religious suzerainty over and in consequence of his alleged descent Dews Agung, the deified progenitor of the se. The prince of Karang Assam is the powerful, has reduced the neighboring of Lombok under his sway, and styles fking of Salemparan. The independence i was never disturbed by Europeans till when, owing to some alleged insult to an the Dutch attacked the chief fortress of g, captured it, and induced all the Balirinces to accede to a humiliating treaty. 7 they refused to carry out its stipulathe Dutch sent another expedition, a fleet arge war vessels and 12 gun-boats, car70 guns and 2,345 troops, which, after an upon Djaga Raga, in Balling, were bloodulsed, and compelled to retreat precipito their ships leaving helping them 14 683 to their ships, leaving behind them 14 offi-id one-third of the rank and file dead and led. This defeat, owing, as Van Carnbée of so much to the strength of the place led as the "frenzied valor" of the Balis probably one of the severest checks a can force ever experienced in the eastern A subsequent expedition was more successful, and induced the Balinese princes to

cessful, and induced the Balinese princes to make many concessions to the Netherlands government, but not, however, allowing any direct political control over the island.

BALIKESR, or BALU-KISSAR, or BALIK-SHEHR, a town of Anatolia, 75 miles S. W. from Brusa. It is built of unburnt bricks. It has the town of a salebrated Mehapureday against the tomb of a celebrated Mohammedan saint, a

manufactory of felt-cloth for military clothing, and trades considerably in silk fabrics.

BALILING, a principality of the island of Bali; pop. 130,000. The exports are rice and bullocks—chief trade with the Bughis of Cebullocks—chief trade with the Bughis of Celebes. The Dutch were signally defeated in an attack upon the fort of Djaga Raga in this prin-

cipality in 1847.

BALIOL, or Balliol, Edward, son of John Baliol, of Scotland, died at Doncaster in 1363. He shared his father's captivity in the tower, and accompanied him to Normandy. From Normandy he was invited over by the English king on two occasions in 1324 and 1327, merely to threaten Robert Bruce, but in 1332 he was called over by the dispossessed 1332 he was called over by the dispossessed Anglo-Norman barons to head them in a darsing incursion into Scotland to recover their Scottish estates. Edward Baliol heartily fell in with the proposal. Yet the force of Baliol, Lords Percy, Wake, and Beaumont, only consisted of 800 horse and a few footmen. This small force set sail from Ravenspur, on the Hum-ber, as Edward III. had prohibited them from marching through the northern counties and violating the neutrality laws. Baliol entered the Frith of Forth, landed at Kinghorn, in Fifeshire, and defeated the earl of Fife. With an army increased by this success to 8,000 men, he marched across the country to meet the earl of Mar encamped on the opposite side of the river Earn, with a force of 80,000 men. A second Scottish army lay within a few miles of Baliol's flank. In dead of night the invading force reduced to degree the Earn of Baliol's flank. In dead of night the invading force, reduced to desperation, crossed the Earn where it is fordable, and attacked the surprised Scots, who regarded the little force in their front as a certain prey. Baliol's foolhardy forces achieved an astonishing triumph at this slaughter of Dufflin Moor; 13,000 Scots, including the earls of Mar and Moray, and hundreds of knights and barons, lay dead on the field. The loss of Baliol's Anglo-Scots did not exceed a few gentlemen and soldiers. From exceed a few gentlemen and soldiers. From Dufflin Moor he marched to Perth, where he defeated the commander of the second army, the earl of March. Now all those disaffected with the rule of Bruce came flocking to his standard; and he was crowned king of Sootland at Scone, on Sept. 24, only 7 weeks after landing at Kinghorn. Baliol having privately rendered to Edward III. of England homage renered to Edward III. of England homage and allegiance, lay careless at Annan, where he was surprised in his turn by the new earl of Moray, brother of him slain at Dufflin, and barely escaped a naked fugitive to England, Dec. 16, after a reign of 3 months. Edward III. now took up the cause of his vassal, and

traitor, and looked to David, the infant son of Robert Bruce, to restore their mutilated nation-ality. While Edward Plantagenet was engaged ality. While Edward Plantagenet was engaged in his French wars, the young king David, since 1841, kept winning fortress by fortress from Edward Baliol's hands. In 1855, Edward from his French wars, desired to put III., returned from his French wars, desired to put an end to the perpetually troublesome Scottish question, by annexing the whole kingdom to the English crown, as his grandfather had annexed Wales. He offered to purchase Baliol's rights to the Scottish throng in consideration of a present the Scottish throne in consideration of a present of 5,000 marks and a yearly annuity of £2,000 sterling. Edward Baliol, advanced in years,

sterling. Edward Baliol, advanced in years, and without children or near of kin, gladly assented to these terms. He appeared before Edward attired with all the symbols of majesty, formally divested himself of them, and laid his golden crown at the feet of the English king. He retired with his wealth into private life, and died childless as a Yorkshire landowner, and with him ends the line of Baliol.

BALIOL, John, a Scottish knight and nobleman of the blood-royal, born about 1259, died in 1814, famous, or infamous, for his rivalry of Robert Bruce, and his intrigues with Edward of Faland, which were the source of a purch

scooper Bruce, and his intrigues with Edward I. of England, which were the source of so much evil to Scotland. On the death of Alexander III. of Scotland, contemporary of Edward I., son of Alexander II., and grandson of William the Lion, the inheritance of the Scotlish crown remained in Margaret, princess of Norway, daughter of Margaret, princess of Norway, daughter of Margaret, the deceased sister of the late king. She dying, shortly after her father's death, pending negotiations of marriage between herself and Edward I., the throne of Scotland became vacant with no direct heir

Scotland became vacant, with no direct heir, and a disputed succession. The principal claimants were John Baliol, Robert Bruce, and John Hastings, beside others of inferior note.

8 were descended from one lineage, n

ers of David, earl of Hu of King William the Lion, and arr II. nor Alexander III. having

These lv. the

time; for Berwick-upon-Tweed be stratagem, and Dunbar by the defection of Robert Bruca, Edi Stirling castles were soon surrem. Baliol, being driven into the cast and there closely besieged, resign Edward all right and title to ti Scotland, for himself and his heir a regular charter duly made and the hand and seal of King John, i year of his reign, all the mobles including the of the blood-roys the same. A this, Edward and upon-Tween, wisser they swore the upon-Tweed, waste they swore the liegemen: did he nage to him as t

with whom the decision rested

divided, that no decision could be a fore they resolved to refer it to the of Edward of lingland, all parties the rival a, swearing to abid by his decree. He decreed it to I

fully, in point of law; but wrongst true, as the Scottish writers assert

so—in making it a condition, with I giving his voice in his favor, that I homage to the king of England, k of Scotland, thereby owning the I dependency of the former. John

accordingly crowned king of Scotla in 1292; and, in the next year, principal nobles of his party, swo to Edward at Newcastle-upon-T

he went on summons, leaving his o

as an inferior at the order of Shortly afterward, being cited at appear at London, at the head of laid his superior, Edward, in the whad just undertaken against Franc the fatal consequences of his

the fatal consequences of his of nounced his allegiance, renewed with France, and prepared for war, emineutly just as it was, it defeated and subjugated in an inc

time; for Berwick-upon-Tweed be

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age, and suffered him to return to Scotland.
The however, he found himself held in such and and contempt, that he crossed back, of two accord, to England, renouncing Scotland. Forever, and not long afterward retired Normandy, where he had estates, and the dying in his castle of Gailliard, he beathed all his lands, on that side the sea, to son Edward, who had been released from estivity, and allowed to join his father in these. John Baliol appears to have been a kend nearly imbecile man; but he hardly been the load of obloquy which has been used on his memory by the writers of Scotle; who should remember that, with a few the ded exceptions—such as Sir William Dougard Sir William Wallace—all the nobility Scotland, and especially his rival Robert see, were guilty of the same treason with uself; and further, that there was never a led, from this time until the extinction of Scotland independence, when a large milty, if not an actual majority, of the Scotlands, and either open adherents or secret the man of the English crown.

ALIZE, or Belize, or, as it is sometimes ed, British Honduras, is an anomalous British fement or establishment, situated on the term coast of the peninsula of Yucatan, thing on the bay of Honduras. Its name is issuely derived from a famous Scotch free-ter who resorted here, named Wallace mounced by the Spaniards Walice or Bah, and from the French balise, a beacon. I last derivation is probably most correct, and here, to guide the freebooters to the mon rendezvous, after they had eluded wit behind the dangerous reef, dotted with a which protects the coast of Yucatan, and sugh which large ships find it difficult to strate. Balize, or as it is still styled in chal documents, "Her Majesty's Settlement the Bay of Honduras," owes its origin to the wood cutters, who frequented the coasts of stan, Honduras, and Nicaragua, after the line of piracy in the sea of the Antilles. It of them had been free companions, and well acquainted with the coast and its strees. The district now called Balize was in dye-woods, and at once became a printiplace of resort with the English cutters. bough thus industriously occupied, they so retained their old habits as to make frequent sents on the logwood establishments of the miards, and appropriate the proceeds of their ms. The attempts of the Spaniards to exthem were generally successfully resisted.

I most formidable of these was made in ril, 1754, when, in consequence of the diffiyof approaching the position from the sea, and to the numerous reefs and shoals, an addition was organized inland, at the town Peten, in Guatemala, consisting of 1,500 men. ar a long and weary march, on approaching

the coast, they were met by a body of 250 English, and completely defeated. The logwood English, and completely deteated. The logwood cutters were not again disturbed for a number of years; and their position had become so well established, that in the treaty between England and Spain of 1768, the former power, while agreeing to demolish "all fortifications which English subjects had erected in the bay of Hondures and other places of the territory. of Honduras, and other places of the territory of Spain in that part of the world," nevertheless insisted upon a clause in favor of the cutters of logwood, in the following terms: "And his Catholic majesty shall not permit his Britannic majesty's subjects or their workmen to be dis-turbed or molested, under any pretext whatever, in their said places of cutting and loading logwood; and for this purpose they may build without hindrance, and occupy without interruption, the houses and magazines necessary for their families and effects; and his C. M. assures to them the full enjoyment of these advantages and powers in the Spanish coasts and vantages and powers in the Spanish coasts and territories, as above stipulated, immediately after the ratification of the present treaty." To insure the observance of this treaty, the British government sent out Sir William Burnaby, who not only settled the limits within which the English were to confine their wood-cutting operations, but also drew up for their government a code of regulations or laws, which, under the title of the "Burnaby code," continued to exist until within a few years. Successful in all their contests with the Spaniards. cessful in all their contests with the Spaniards. and now strengthened by the recognition of the crown, the British settlers did not fail to assume encroachments on the Spanish territory. The Spaniards, alarmed and indignant, and alleging that the settlers not only abused the privileges than by the treaty, but were conceded to them by the treaty, but were deeply engaged in smuggling and other illicit deeply engaged in smuggling and other illicit practices, organized a large force, and on Sept. 15, 1779, suddenly attacked and destroyed the establishment, taking the inhabitants prisoners to Merida, and afterward to Havana, where many of them died. Those who survived in 1782 were liberated, and allowed to go to Jamaica. Strong representations were made to the British covernment for redress but the Jamaica. Strong representations were made to the British government for redress, but the allegations of the Spaniards were found to be so well supported, that they were dismissed. For 2 or 3 years the establishment seems to have been abandoned; but in 1783, a part of the original settlers, with a considerable body of new adventurers, had revived the place, and were actively occupied in cutting woods. On were actively occupied in cutting woods. On Sept. 3 of this year, a new treaty was signed between Great Britain and Spain, which set forth that in order "to prevent as much as possible all causes of complaint and misunderstanding heretofore occasioned by cutting of wood for dyeing or logwood; and several English settlements having been formed and extended under this pretence upon the Spanish continent, it is expressly agreed that his Britannio majesty's subjects shall have the right of

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cutting, loading, and carrying away logwood in the district lying between the river Wallis or Balize and Rio Hondo, taking the course of those two rivers for unalterable boundaries, to plete annihilat concentrated a wit, &c., &c., to the end that a good correspondence may reign between the 2 nations, and that the English workmen, cutters, and laborers may not trespass from an uncertainty of boundaries." The article further provided that the concessions therein contained "should not be considered as derogating from the rights of sover-eignty of the king of Spain" over the district in question, and that all the English, wherever dispersed on the Spanish territories, should concentrate themselves in the district thus defined Affairs, notwithstanding within 18 months. the explicit stipulations of this treaty, do not appear to have proceeded favorably, for, 3 years after, in 1786, a new treaty was made between Great Britain and Spain, in which the king of Spain, "from sentiments of friendship toward his Britannic majesty and the British nation. grants an extent of territory additional to that conceded in the treaty of 1783, embracing the territory between the river Siboon or Jabon and the river Balize, so that, collectively, the grants embraced the entire coast between the river Siboon, in lat. 17° 20' on the south, and the Rio Hondo, in lat. 18° 30' on the north, a coast line of about 90 miles, with the adjacent islands and bays. But these extended limits were coupled with still more rigid restrictions. The English might cut and export wood, or any "other fruits of the earth purely natural and uncultivated," or the earth purely natural and uncultivated," but they were expressly prohibited from ever using this permission "for establishing any plantation of sugar, coffee, &c.," or manufactures of any kind; and "the lands in question being indisputably acknowledged to belong of right to the king of Spain, no settlements of that kind, or the population which would follow, could be allowed." The erection of all fortifications was expressly forbidden, as was also "the formation expressly foroidden, as was also "the formation of any system of government either civil or military." And finally, to see that the precise and stringent provisions of the treaty were carried out, a Spanish officer or commissioner was to visit the establishments twice a year, "to examine into the real situation of things." Language is incanable of expression was a second of the stable of the stable of the stable of expression was a second of the stable of Language is incapable of expressing more precisely the intention of Spain to retain her right of sovereignty over the district, the use of of sovereignty over the district, the use of which was conceded to the English settlers for the sole purpose of cutting logwood and me hogany, and exporting the fruits of the early purely natural. It is not to be supposed that a population composed of so wayward and law lass a set of town at a distance from England. less a set of men, at a distance from England, was remarkably exact in its observance of either the letter or spirit of the treaty of 1796. seem to have given great annoyance to Spanish neighbors, who eagerly availed availed the spanish neighbors, who eagers avoid the selves of the breaking out of war between the two countries in 1796, and the consequent suppension of treaty obligations, to concert a forpension of treaty obligations, to concert a similable attack on Balize, with a view to a co

which, under set sail in 13 off the place in anticipation tually aided Merlin, had st the harbor, ca position they I cessful resista which, after a was obliged to Campeachy. lodge the Eng their success, thereafter pay of previous ti that the defer has been addu permanently (over the terr who take this overlook the i Britain, by a and reenacted of 1786. government, t never pretend of this success '19, the acts always refer purposes, in tl tection of his tory and dom "certain purp those set fort vived in 1814 ind**ep**endence inces, Great B new republic sought to secu ing the provis of her treaties fact, incorpor Mexico; was treaty which the represent America, in failed, from t negotiate on and was inco a treaty subn from which it as relating within, her fore, is with beyond the quoted, whi ion, the are may be ex ated in 1830 set up to an a including the

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lla, on the river Balize. (See letter ge Gray to Saml. Coxe, Esq., Nov. No pretext has yet been put for-tify this new assumption, whereby of Balize was more than doubled; s as a simple, arbitrary act of power sak and unresisting state. Still the ak and unresisting state. Still the r will it guarantee titles to lands imits so positively set forth. Polize is still a settlement, "for ceres, under the protection, but not dominion of the British crown." an establishment," and is governed intendent and local assembly, dethe governor of Jamaica. This the governor of Jamaica. This tate of things has no doubt seriously ith the material prosperity of Bahile it must be insisted that Great no technical rights of sovereignty ritory, yet it cannot be denied that ise of her subjects has rescued a st from the savage dominion of narried industry, laws, and a qualified where none existed before, and where, control of the Spanish race, none existed to this day. In the interest on and humanity, there can be no coupation of Balize by the English to be regretted; and the sooner that akes a determinate form, the better olishment and the world. It was ese considerations which induced American secretary of state, to be exclusion of Balize from the opee convention of 1850, between the sand Great Britain, whereby both and themselves "not to occupy, fornize any part of Central America."
limits of Balize, as laid down by Gray, and as extending from the on the north, to the Rio Sarstoon th, and inland to the meridian of alls on the river Balize, we have a out 160 miles long, by not far from de at its broadest part, equal to an 00 square miles. The approach to nigh cays and coral reefs, and the r ships are intricate and dangerous. 60 miles vessels wind among innuets, some mere walls of rock, covnd, and others loaded with verdure to edge. Between these and the mainbroad belt of still water, deep, but at the eye can nearly everywhere the bottom, and watch the various arine life which flourish there. The for some miles inland is low and ickly covered with forests of mantropical jungle. But as we ascend e land rises and assumes an entirely aracter, and spreading out in what ern states, are called "bottoms," o al earth, varying in width from 50 mile. Beyond these, and parallel ars, are vast tracts of sandy, arid VOL. II.—34

land, covered with forests of red pine, called "pine ridges," the favorite abodes of the cougar, peccary, and other wild animals. Still further inland, ascending the rivers, the pine ridges give place to others of a different character, called "cahoon ridges." These have a deep, rich soil, and are covered with myriads of palm trees, known as "cahoon palms," of which the arching branches form cool, beautiful vistas, scarcely penetrated by the rays of the sun. Succeeding these are broad savannahs, studded with clumps of trees, through which the streams which descend from the mountains wind in every direction. The mountains themwind in every direction. The mountains themselves rise in a succession of ridges, parallel to the coast, the first of which, called the Mantihills, are from 800 to 1,000 feet above the level of the sea. Beyond these are the Cocksomb mountains estimated to be at least 4000 feet. mountains, estimated to be at least 4,000 feet high. From these mountains descend numerous streams, through wild, picturesque valleys, ous streams, through while, picturesque vanely, forming many cataracts, and in some places subterranean passages through the rocky barriers which interpose between them and the sea. Not less than 16 of these streams, sufficiently large to be called rivers, enter the ocean, between the Hondo and the Sarstoon. The climate of Balize is hot and damp, but favorably influenced by the full exposure of the country to the ventilation of the trade winds. The influenced by the full exposure of the country to the ventilation of the trade winds. The average mean temperature for the year 1848, was 79° F.; the amount of rain which fell during the same period, 46½ inches. Balize is not troubled by hurricanes, nor has it been seriously affected by the earthquakes which have, at different times, caused so much alarm in the neighboring Central American states. It have, at different times, caused so much alarm in the neighboring Central American states. It has never been afflicted by epidemics, except the cholera. Yellow fever frequently occurs, but sporadically, and never in an endemic form. Although a number of Europeans reside in Balize, without apparent serious inconvenience, yet the climate is not regarded as favorable to the white race. Negarded as favorable to the white race. groes and their descendants, however, find here reach an age of more than 100 years. There seem to be no aboriginal tribes within the limits of Balize except some Caribs, who have fled into it as a place of refuge. The present population consists principally of negroes, originally brought into the country as alayes and inally brought into the country as slaves, and colored persons sprung from the intercourse of Europeans with Africans and Indians. They are engaged in cutting mahogany and dye-woods, and in fishing; a few of them cultivate small patches of ground. The scanty white population is occupied in commerce. The num-ber of inhabitants is stated, in the superintend-ent's returns for 184K to be. ent's returns for 1845, to be:

Whites 940 Colored6,755	male	159 2,655	femal	les 899 9,410	in ell
Total 6,995		2,814	"	9,809	•

In 1823 the population numbered 5,179, and consequently had nearly doubled itself in 22

ate their power in the management of the roperty of such persons to another, &c. They ad control the treasurer. No money can be aid without the sanction of 4 of them, who mall orders for issue. Their services are retuitous. Trial by jury is established, and much the decisions of the court appeal lies breetly to the sovereign in council.—The mility protection of the colony consists of one tempany of artillery and a regiment of the line.

There is also a local maritime force. The temperintendent is commander-in-chief of this All duties and taxes are levied under be authority of acts passed by the magistrates ad canctioned by the superintendent. The adinary expenses of the government amount about £20,000 per annum. In church after, Balize is an appendage to the diocese Jamaica, and the public religion that of the ion school at Balize, and there are several bod private schools, beside a number of Sunby schools, the latter of which are conducted hedy by the dissenters.

BALKAN MOUNTAINS, an extensive range sanding the great plains of Bulgaria south the lower Danube. The true Balkan, or the lower Danube. The true Balkan, or incient Hæmus, commences on the Black sea at Cape Emineh, or Hæmus, lat. 40° 48′, and the making a curve to the north, runs S. W. the sources of the Maritza, the ancient Heavising Bulgaria from Roomelia or Turkey woper. Here it is intersected at an acute made by a range running N. W. and S. E. from Bounagna into Servia, and called by the ancients theology and Scomrus by moderns Duninshahodope and Scomrus, by moderns Dupinsha-bah. Further west, on the southern frontier Berk. Further west, on the southern frontier of Bervia, it becomes the Mount Orbelus of the meients. Between Servia and Albania it is the Mons Scardus, or Kara-dagh, and thence rouses Albania, terminating again with the sea, were the head of the gulf of Venice. The averties elevation of these mountains is about 4,000 bet. The highest peak N. W. of Kolofer is the Balkan is the natural defence against northern invaders. It has Turkey against northern invaders. It has passes, the principal and most passable of Parkey against northern invaders. It has passes, the principal and most passable of traich is that of Shumla, by which the Russes, under Marshal Diebitch, effected a passes in 1829, notwithstanding the resistance intered to him by the fortresses of Varna and haumla. The Balkan is united to the Caracthians and to the Alps by lateral chains, ionse of the rivers which take their rise in the Balkan are of considerable importance. Those which flow from the northern water-shed are

which flow from the northern water-shed are wibutaries to the Danube, with the exception

a small river, the Daphne, which runs into the Black sea near Varna. The rivers Ogost, ther, Jantra, traverse Bulgaria and fall into Danube. On the south the Maritza and its

merous small tributaries flow through Rooclia into the Ægman sea. From the western mge the Morava or Margus and the Drin flow north through Servia from Mount Orbelus and the mountain district of Montenegro. On the south the Nestus (Mesto), Struma, and Axius (Vardar), carry off the waters into the gulfs of Contessa and Salonica. The mountains apprincipally of granitic formation. Marble is abundant in the conthern ranges, particularly if abundant in the southern ranges, particularly if all the mountains of Turkey and Greece be included in the general system. Gold and silver were found by the ancients. Copper, iron, and lead mines are also in existence, but the unsettled state of the country, and the little interest taken by the Turks in such pursuits, prevent the mineral resources from being developed.

the mineral resources from being developed.

BALKASH, or TENGHEEZ, an extensive lake of central Asia, on the borders of Chinese Toorkistan and the Russian government of Tomsk, between lat. 44° and 47° N., and long. 77° and 81° E. It has no visible outlet. Its length from N. E. to S. W. is 150 miles; greatest breadth, 75 miles. It is enclosed by mountains on the E. and W. On the S. and S. W. is the valley of the Ili, which was, about a century ago, the principal domain of the independent and powerful Zungarces. They were nearly and powerful Zungarces. They were nearly annihilated by the Chinese, who now cultivate

annihilated by the Chinese, who have their valley.

BALKH, a town of Bokhara central Asia, lat. 36° 48′ N., long. 67° 18′ E.; pop. about 2,000. Its present insignificance contrasts strongly with its ancient importance. In the overland trade between China and western Asia Balkh was a depot of the caravans. The ruins of the town, spread over 20 miles, attest its former greatness, which was impaired by tits former greatness, which was impaired by the discovery of the Cape of Good Hope route to India. It was sacked by Genghis Khan, who perpetrated a general massacre of its inwho perpetrated a general massacre of its inhabitants; and a second time the inhabitants were the victims of Tamerlane; Nadir Shah also conquered it, and it has received the last indignity from Murad Khan, a chief of the Kardoozes. It formerly belonged to the Afghan rulers, but on the disruption of their kingdom it was seized by the king of Bokhara, who derives no advantage from its possession, the revenues being appropriated by his lieutenant. The district is fertile, and once supported a large population, by whose industry it was a large population, by whose industry it was extensively irrigated from the river Oxus. Traces of the works for this purpose still exist in the canals which are now choked up, and are only sources of disease.

BALL. Although dancing is probably as old as Adam, balls are of less ancient origin. Dancing assemblies of antiquity were more or less connected with gymnastical, theatrical, or strategical associations. The Greeks had their martial dances, which had a political meaning, inaspect the leading idea was to develop warlike much as the leading idea was to develop warlike habits, and to rear good soldiers for the state. The modern reunions which come nearest to these gatherings of the ancient Greeks, are the diplomatic balls, where cunning takes the place of steel, aspiring statesmen talk politics to intriguing ladies, and shy whispers about the an elastic ball. This is thrown by the nocked by a bat, or kicked by the foot-t-ball, the largest in size, is 6 inches or 1 diameter, and filled with air, and is by two parties who try to kick it in op-lirections. Other balls are of a size to lirections. Other balls are of a size to sed by the hand, and the game usually upon the skill of one party in knocking with a bat, and of the other party in it in the hand before it comes to the

The ways of playing the game are as and constantly varying, but there are stablished and permanent methods, as and tennis, which will be subjects of

articles.

, in military affairs. See Buller.

John, an English priest of the 14th, a disciple of Wycliffe, upon whose redoctrines he ingrafted some political, resembling the "liberty, equality, and y" of later ages. The consequence of whing was violent excitement of the and public riots which lasted for two atil the preacher was seized and behead-

, ROBERT, M. D., an Irish naturalist, born, in the county of Cork, in April, 1802, Dublin, April 30, 1857. He collectspecimens illustrative of the natural of Ireland, and eventually became dif the museum of Trinity college, Dub-le his collection, which was purchased nuseum, was placed under his own care. perhaps best known as secretary of the ological society of Ireland. In 1856, association, at Cheltenham, a valuable association, at Cheltenham, a valuable d diagram on the aeration of aquavivaria. A, an Irish village in the county of requently mentioned by ancient chronut now containing only 600 inhabitants, and tower.

ADS, a peculiar species of national po-which Spain and England and Scotland en particularly celebrated. The ballad aphave been distinctly Norse, Teutonic, or avian in its origin, and never took any my southern nation of Europe of Latin with the single exception of Spain, in ountry the short popular poems framed purpose of being sung, with or without a ausical accompaniment, have arrived excellence with those of the northern of England and the southern marches and, and possess nearly the same char-cs.—These characteristics are principally mdence of the ballad on its subject mat-ple, energetic mode of expression, tone tht, and marked rhythm, for its effect on ers, rather than on its instrumental aciment, the tune to which it is set, or the the singer, which is best displayed when to every word its full syllabic articula-d the expression and force which its , and weight in the poem require, with-of those trills, bravuras, and embroider-

ies which belong to the Italian schools, and which charm the ear with sound, while entirely concealing from it the sense.—As regards the poetry of the ballad, its relation to poetry of a more ambitious order, is nearly that of its music more ambitious order, is nearly that of its music to that of the canzone, or the opera. Simplicity and homely force of expression, whether the effect to be produced is the moving of the listener's heart, as Sir Philip Sidney tells us that his heart was wont to be moved "by the old song of Percy and Douglas, more than with a trumpet, and yet it is but sung by some blind crowder, with no rougher song than rude style;" or the stirring it to tears by the deep pathos of such wailing laments, as "The flowers of the forest are all wede away," or "I would I were where Helen lies," and a hundred others; not the forcing of admiration by far-fetched sentiments, or the elaboration of words, is that which constitutes the true charm of this species of composition. The true ballad is always a brief relation of some knightly exeies of composition. The true ballad is al-ways a brief relation of some knightly ex-ploit, of some national event to be rejoiced at plott, of some national event to be rejoiced at or deplored, of some tale of true love, pleasant or pathetic, or lastly, of some comical or popu-lar rustic, or semi-rustic adventure.—Its sub-ject is, always, the first thing to be sought, as having a natural attraction to its audience; and the story is to be told in the fewest and most the story is to be told in the lewest and most striking words that can significantly express the fulness of the idea. Nothing of mere poetical adornment is allowable; if a simile be used it must be couched in a word or two, must be ob-vious, strikingly pertinent, and, while always rising above its subject in order to magnify what it describes or descending to minute detail in it describes, or descending to minute detail in order to intensify the description, such as suggests itself naturally, and seems rather to be a part itself than an illustration of the subject.— Alliteration is often introduced in ballad poetry Alliteration is often introduced in ballad poetry with the greatest success; and, however quain and homely the fresh wording, the more picturesque the images it can be made to call up by its artless and natural vigor, the more sonorous the flow of the rhythm and the grander the roll of the cadence, the greater will be the effect of the ballad.—By persons who possess, or affect to possess highly cultivated musical tastes, ballad poetry and ballad music are generally undervalued and despised, and naturally so: for dervalued and despised, and naturally so; for the pleasure which they solely seek is the en-chainment of the senses, and the holding of the imagination

In willing chains and sweet captivity,

by the pure effect of harmonies, melodies, and sounds; and not the affecting of the mind by its direct passions, by the force of the feelings awakened in it through the ordinary channels of wonder, pity, fear, sorrow, or admiration.—In old times, probably from the earliest recorded or unexpected bistory, the Scandin of recorded or unrecorded history, the Scandi-navian and Teutonic scalds and bards, as the Welsh harpers, were wont to sing the exploits of their heroes and chiefs, and the loves of their rude heroines, and the myths of their demigods about their camp-fires or during the hours of

e they describe, would have puzzled half rities and antiquaries of the day in which actually appeared as a jeu d'esprit, or of other jury more critically acuminated. In United States, original ballad poetry has a but little root in the grave and stern soil stern Puritanism, or in the lighter and excitable temper of the southern mind. Duyckinck, however, discusses the ballads as revolution in his excellent "Cyclopædia merican Literature;" and Mr. Frank Moore collected into one convenient volume all is extant of them. In modern ballad cosition we have been hardly so fortunate their branches; or, perhaps, our more poets have hardly turned their attento the ballad in its pure severity; those beautiful poems of Mr. Longfellow, the y of Bruges, Hans Sachs, the cobbler poet, come others, Philip Pendleton Cooke's Froisballads, and Whittier's various productions allad form, being, in truth, poems of a ligher soar and deeper sentiment than bal-which deal with sights and sensations, not musings and recondite speculations of the 7 or imagination.

LLANOHE, Louis Sixon, a French wrights and philosopher, born in Lyons in 1776, which we with the state of the poetrose of the political philosopher, born in Lyons in 1776, which we with the political philosopher, born in Lyons in 1776, which we with the political philosopher, born in Lyons in 1776, which we with the political philosopher in the day of the provided philosopher in Lyons in 1776, which we with the political philosopher in the day of the provided philosopher in Lyons in 1776, which we with the provided philosopher in the pr

ALLANCHE, Louis Simon, a French wriand philosopher, born in Lyons in 1776, in Paris, June 12, 1847. He first followed trade of his father, who was a bookseller a printer; but meanwhile he secretly addinimself to literary pursuits. As early as, he published a book called Du sentiment idiré dans ses rapports avec la littérature este, which gained for him the distinction eing elected a member of the provincial emy of Lyons. In 1814, appeared Anti-, a historical novel or poem in prose, narrathe misfortunes of the family of Edipus, style of classic beauty. Then canne his sur les institutions sociales dans leurs rapsece les idées nouvelles, in which he tried soncile national tradition with the progres-law of modern society. These performs, which bore the marks of a very elevated d, passed nearly unnoticed by the public, the highly appreciated by a small number enders. In 1820, L'homme sans nom, a l, in which fatality, or rather the severe of Providence is depicted in fearful colors, a more impression, as it appeared to be, under servely disguised form, a virulent denuncianf some old revolutionary leaders; L'homme nom was indeed one of the judges who condemned Louis XVI. After this publim, Ballanche, who had previously removed aris, returned to purely speculative studies, pite of their abstruseness, his subsequent is were eagerly sought for; and their mophical meaning began to be more raily understood, while their purity of won universal admiration. In Orphée, the is much like Antigone in point of ary form, he symbolically expounded the in which every great social evolution to be accomplished. But we must look to

the Prolégomenes, which serve as an introduction to Orphée, and especially to his great work called Palingénésie sociale, for the complete exposition of his theory, which seems inspired by a sort of prophetic and mystical spirit. This theory is summed up, though not made more intelligible, in La Vision d'Hébal, chef d'un clan Ecossais, which was Ballanche's last published book. His name is happily associated with those of Chateaubriand and Mme. Récamier, and if it is not one of the most popular, it is certainly one of the purest and most highly honored in the literary world.

honored in the literary world.

BALLANTYNE, JAMES, printer of Scott's poetry and the Waverley novels, born in 1772, died 1838. While yet a child, he became acquainted with Walter Scott, who was his fellowant of the second scott with the secon pupil for a short time at Kelso grammar school. In 1795, Mr. Ballantyne commenced practice, as a solicitor, in his native town, Kelso. In 1796, he started a weekly journal called the "Kelso Mail," and, having accidentally met Scott in the mail coach as he was going to Glasgow in the mail coach as he was going to chasgow to purchase type, then formed that intimacy which continued for 35 years. In 1799, having displayed great taste in printing a few copies of Scott's ballads from the German, for private distribution, he was induced to remove to Edinburgh, there to carry on the printing business. The first volumes he issued in Edinburgh, from what he called the border press, were the first and second of Scott's "Minstrelsy of the Scottish Border," brought out in a manner greatly superior to any Scotch printing of that time. The third volume followed in 1803, with equal claim for admiration. From that time, he print-ed all of Scott's works, and was indebted to his recommendation for large employment by publishers and authors. From 1805, however (when the "Lay of the Last Minstrel" was published), to his failure in 1826, Scott was a secret partner with Ballantyne, not only in the printing business, but in the proprietorship of the "Edinburgh Weekly Journal," which Ballantyne conducted with spirit and success. It is worthy of note, that though Ballantyne, unequalled as critical and editor, was a careless man of business, his printing office always yielded large profits. printing omes always yielded large profits. For many years he printed "Blackwood's Magazine;" and in the year 1822, the volumes, all from Scott's pen, which were issued from Ballantyne's press, were 145,000. Unfortunately, Scott also became principal in a publishing borne of which Lohn Ballantyne was the estar. house of which John Ballantyne was the ostensible head. After struggling for some years, with heavy losses, this concern was broken up. Scott's misfortunes, the result of his purchasing land at enormous rates, and drawing bills, on which heavy discounts were paid, also ruined James Ballantyne. In the life of Scott, by Lockbert Ballantyne was strongly blamed and James Ballantyne. In the life of Scott, by Lockhart, Ballantyne was strongly blamed and reproached for having led Scott into the pecuniary difficulties which darkened his latter years. After some cross-shooting of pamphleta, in denial and proof of these charges, the public generally arrived at the conclusion that lloons take up with them a certain ballast, which consists of sand or ballast, which consists of sand or noe which, thrown from on high, the heads of mortals down below. dloon is descending it is necessary s escape, and that often makes it enough, so that there is danger of n to earth too rapidly. The seroceiving that the balloon is descendlly, or wishing to select a suitable cent, throws out his ballast, which balloon, and enables him to descend or to move on to some other spot. EROS, FRANCISCO, a Spanish gen-Saragossa in 1770, died at Paris, 2. He first served in Catalonia French during the campaigns of 95, and was appointed to a cap-charged in 1804 on account of emhe was nevertheless intrusted by arful Godoy, prince of the peace, the most productive offices in the e, the direction of the resquardo at the French army invaded 08, Ballesteros was promoted to a the provincial junta of Asturia, and lastilian army under Castaños and regency of Cadiz promoted him of lieutenant-general, and put him of the army of Andalusia. He fight against some of the most of the French army, and succeeding their states of the french army, and succeeding their states of the first states. ig their pursuit by peculiar tactics.

igton was intrusted, in 1812, with
command of all the armies in the allesteros showed such violent ophe was arrested as guilty of treason prisoner to Ceuta. A few months restored to liberty, but not allowed te military service. On the return I VII. to Spain, Ballesteros made of devotion to monarchical prine was appointed secretary of war i dismissed and sent to Valladolid s placed under the strictest surveilthe struggle between the royalists titutionalists commenced, he managly that each party thought Ballesting in concert with them. Comf the king to the constitution, he eyond their anticipations, and beber of the council of state, while he ame time admitted in the communion. This double-dealing seemed tly successful, for in 1828, on the the French in Spain, he was apne command of the army; but inwing fight, he concluded a capitu-he duke of Angoulème, which be-asion of accusations of such a charallesteros thought it not prudent to iger in his own country, and took rance, where he died a forgotten LOPEZ, a Spanish financier, born bout the year 1778. He entered the cabinet as minister of finance, in 1825, and at once launched his country into those ruinous loans, under the burden of which Spain is sinking. He acted in concert with the celebrated Aguado, marquis of Las Marismas, and succeeded in acquiring wealth amidst public embarrassment. He was an absolutist in politics, but distinguished by a certain mildness of temper, never being in favor of rash measures. On the accession of Queen Christina to power as regent in 1838, he was dismissed from the cabinet. He has been lately appointed a member of a legislative financial committee.

BALLET, a dramatic representation composed of dancing and pantomime with music. The word itself is French, and derived from the Italian ballars, the root of which is evidently the Greek βαλλιζειν, to dance. The ballet may be said to be as old as the world, dancing among the engines begins been seed in a plice. among the ancients having been used in relig-ious ceremonies. The most sacred mysteries of heathenism were thus accompanied; and many ssages in the Greek writers show that ballet of action was in great credit among them. Aristotle says that there are dancers, who, by rhythm applied to gesture, express manners, passions, and actions. Some of them, according to Athenaus, brought their dance to such perfection in the art of imitating the passions, that the most eminent sculptors thought their time not ill employed in studying and designing the attitudes of the public dancers. The Romans, of course, copied from the Greeks, and reached also, under the reign of Augustus, a rare degree of perfection. Three dancers above all, Bathyllus, Pylades, and Hyllas, accomplished wonders by their varied performances, in which wonders by their varied performances, in which artistic skill and truthfulness of pantomime were so blended as to produce most perfect illusion. Pylades personified tragic subjects, while Bathyllus excelled in the representation of the comic. Each had his school of pupils and his host of partisans, whose eager rivalry led to serious disturbances. These entertainments continued popular down to the fall of the empire; but it was only in the later period that women appeared on the stage; and among the most favorite performers at Constantinople, the chronicles mention Theodora, who became the wife icles mention Theodora, who became the wife of the emperor Justinian. The middle ages preof the emperor Justinian. The middle ages present no records of the ballet; but in 1489, on the occasion of the marriage of Galeas Visconti, duke of Milan, with Isabella of Aragon, a spectacle of the kind was among the entertainments given by a gentleman of Tortona; and it excited such admiration, and such reports of it were circulated through Europe ports of it were circulated through Europe, that it was presently introduced in several countries. France was among the foremost in encouraging this entertainment; in 1581, Catharine de' Medici had a great ballet performed, "Circe and her Nymphs," the expenses of which amounted to 8,600,000 livres. Henry VI, was very fond of ballets, and Louis XIV., in his early days, had such a taste for dancing, that he appeared in several of these entertainarracks, and powder mills; pop.

ALL, GEORGE, a Scotch physician, 4, 1855, officiated since 1828 as nilitary surgery in the university after having served as a surgeon idia army and on the continent. esponding member of the French my, and connected with various bodies in Scotland and Ireland. a military surgery were numerous-He wrote a text-book for his class, tlines of Military Surgery," and "Observations on the Diseases of Troops in India," and "On the ruction of Military Hospitals." In long and faithful services he was 830, upon the accession of King

, a military engine of the Romans, ge and defence of fortified places. the description of authors, nor ed or painted representation exh Trajan's column presents seveof these machines—can any distinct; be had of the principle or process ese primitive substitutes for artilvere all included under one genermentum; which, as is shown by re, to twist, would seem to im-ropulsion was given by means of ropes or fibres; yet the method erable; nor is the use of them torquere came in time to signify rl or launch any missile, by any by the unassisted force of the huhe difficulty is increased by the names of the various engines are ded, and used indiscriminately by ment to the times of Julius Casar. wever, the ballista was an engine tones with a parabolic ascent, in roy the battlements of walls and uildings in their fall; as the cata-anded for shooting darts, which I the magnitude of beams, shod ad sometimes enveloped in tov and naphtha, and set on fire.—The sta threw stones of three various rding to which standard the power was rated, as our cannon are bre; these were, half a hundredndredweight, and three hundred-h last appears to have been the osephus mentions ballistee, the deof which he records as very apable of throwing their missiles n, to the distance of a quarter of uvius also mentions smaller ballisew stones not exceeding 2 pounds ew stokes not exceeding a points of which seem to have been used ery, and to have been plied from the heads of the front ranks, into ines.—In the middle ages, ballista a applied to the cross-bow, and,

in the reign of Henry III. of England, there was an officer named ballistarius, the keeper of the cross-bows, whose pay was a shilling a day—a very large sum in those days—beside another, the attiliator ballistarum, whose duty it was to provide the harness and accountements of the cross-bowmen. In the classics, howevery the extensite not the ballists is the however, the catapulta, not the ballista, is the large wall-cross-bow, used in the place of cannon. In Grose's "Military Antiquities" there is an engraving, from an old contemporaneous carving, of a trebuchet, or machine for casting stones, of the middle ages, with 2 figures ap-parently feeding and working it, clad in chain hauberks, hoods, and hose of the earliest pe-riod; but no idea whatever can be formed of the operation of its mechanism. It is remarkable that a similar confusion to that noted above in relation to the ballista, existed in ref-erence to the trebuchet, which is sometimes erence to the trebuchet, which is sometimes described as a gigantic cross-bow, sometimes as an engine, consisting of complicated springs, for the casting of stones. The force and accuracy of aim of these engines were far greater than is usually supposed; as is shown by the following passage from Froissart, chap. lix., in which he has previously described the siege of Mortagne, and the manner in which the defended for were supposed by an engine of the sessilents. ers were annoyed by an engine of the assailants:
"There was, at this time, a very able engineer
at Mortagne, who, having considered the machine of the Valentinois, and how much it annoved the town, for it was perpetually in action, made another in the castle, which was not very large, but well-made and tempered, and so well formed that it was used only 8 times; the first stone fell within 12 paces of the engine of the Valentinois; the second was nearer to the box; the third was so well aimed, that it struck the machine on the shaft and split it in two."—After the use of gunpowder, these en-gines, necessarily, fell into disuse. BALLISTIC PENDULUM, a contrivance for

measuring the velocity of projectiles. It is a pendulum with a large wooden block at the lower end. A ball being fired horizontally into this block swings it through an arc, the length of which depends upon the relative weights of the two masses, and upon the velocity of the ball, so that from the length of the arc the

ball, so that from the length of the arc the velocity may be calculated.

BALLIUM, the main keep, or central part of the old Norman castles of the feudal days; sometimes called the donjon, which, itself a corruption of domnionum, in low Latin, has since been corrupted into dungeon, and used to signify a subterranean prison. It was usually of a square form, and often stood on an elevated mound, having circular, octagonal, or sometimes diamond-shaped turrets at the angles, forming diamond-shaped turrets at the angles, forming flanks, which commanded the flat curtains be-tween them by their cross-fire. The walls of the two lower stories were of such immense thickness, that the whole structure was little less than a mass of solid masonry, and the habi-table apartments were only reached, either by

black for condemnation; and in ne designated the prosecutor, the indant.—It does not appear that voting was used for the sake of assemblies and courts were held o assembles and courts were held e in public places, and the voters of from the popular audience only of ropes. When, therefore, the up to the boxes and deposited their known how they voted. Secrecy sen designed in the court of the hich made its decisions at night, he presence of an audience, but in rts and popular assemblies the balism, which was a vote of the expulsion of a citizen for the ears, was done in a similar way, ing the name of the obnoxious all.—It appears that the tless, a mere matter of conveniall.—It appears that the assembly at Athens in a legislative caparejected a law precisely as it was hout amendment.—At Rome the a considerable period before the the republic, to vote by tablets inetters expressing assent or dissent d measure, and the result was ferent from what might have been n popular opinion as openly ex-ero speaks of it as being all that ormer liberty; that notwithstand-

had been prostrated, yet that ey would reappear in the silent ie people (judiciis tacitis aut ocre suffragiis), Cic. Off. lib. ii. 87. 1 to the ballot (tacitis suffragiis), screen to corruption, b. iii., let. mon mode of voting in the United ot is much superior in conveninglish viva voce mode, but has not rtance in respect to purity of elecy its advocates been attributed to n will exist, whatever mode of e prescribed, if there is want of e people. Perhaps the open vote is t a check upon private bargaining, pular elections, whatever may be advantage of voting by ballot, the case with which the election can by this mode must insure its percountry.

IOSEA, a leading minister of the Uni-mination in this country, born at H., April 30, 1771, died in Boston, He was of French descent and benily of ministers. His father was a Three of his brothers were man. and one of them, Benjamin, was

8 sons, all preachers likewise.
7 of the 3, was also the father of a le a fourth brother, not himself a lished one from his family in the grandson. Hosea Ballou was the faith of the Baptist church, and in early life (1789) under the ed in early life (1789), under the is father, Rev. Maturin Ballou, in

his native town. His advantages for education were small. He never attended a school until he was 20 years old, and for this opportunity he seems to have been indebted to an accidental injury which well-nigh cost him his life. His stationery in learning to write was supplied by pieces of birch bark and charcoal. He was of a naturally inquiring mind, and early began to investigate the religious sentiments he had espoused. He soon found occasion to change them for a faith then scarcely known in this country, and having, at the time of his birth, no organized congregations. Mr. Ballou at first embraced a doctrine which may more properly be designated as Restorationism than Universal-Later in life he became Unitarian in faith, and embraced the opinion that there was no state of punishment after death. He began to preach at the age of 21, and during the early years of his ministry supplied his temporal wants by teaching a school. In 1794 he bewants by teaching a school. In 1794 he became the settled preacher of a congregation in Dana, Mass., where he labored until 1802, when he removed to Barnard, Vt. There, in 1804, he began his career as a theological writer in the publication of a volume entitled "Notes on the Parables," which was soon followed by "A Treatise on the Atonement." In 1807 he removed from Barnard to Portsmouth, N. H., where he published a work entitled "Candid Review." He removed in 1815 to Salem, Mass., where he labored only 2 years, when he removed to Boston (1817), in which place he continued to reside until his death, which occurred after a life of 81 years, 60 of which had been spent in the active service of the ministry, a service which led him, in the later years of his life, into all parts of the union. His literary labors were great; for, although he never wrote his sermons, yet he engaged as early as 1819 in the effort to build a literature for the people of his choice, and, we might almost say, of his creation. In that year the publication of the "Universalist Magazine" was removed by Mr. Belley a posiedical which most say, of his creation. In that year the publication of the "Universalist Magazine" was commenced by Mr. Ballou, a periodical which has continued to be issued ever since, though under a modified form and name. In 1831, in connection with Rev. Hosea Ballou 2d, he commenced also the publication of the "Universalist Expositor." About the same time he published a volume of "Lecture Sermons," and a few years later (1884), "An Examination of the Doctrine of Future Retribution." His ublished works would make 100 12mo vols. He united more persons in marriage than any other minister in the country, and preached over 10,000 sermons. Biographies of Mr. Ballou have been published by his son, M. M. Ballou and hy the Bay Thomas Whitteners.

lou have been published by his son, M. M. Ballou, and by the Rev. Thomas Whittemore.

BALLSTON SPA, a post village, the capital of Saratoga county, New York, situated in a valley on a branch of the Kayaderosseras creek, 7 miles S. W. of the village of Saratoga Springs; pop. in 1855, 2,285. Its mineral springs were formerly celebrated and extensively frequented by invalids, but within a few years have de-

residence of the queen of Engsituated 50 miles from Aberdeen, a of the river Dee, and close by the of Lochnagar and Ben Macdui. A royal edifice has been erected in ancient castle.

/ES, HENRY, a Scotch Protestant, kealdy, in Fife, in 1520, during the nes V.; died in Edinburgh, in 1579. at St. Andrews, and afterward, in a at Cologne, his religious opinions ed from the Catholic to the Protes-He returned to Scotland, and in an profession of the Protestant faith

ismissal from the office of secretary ferred on him by Gov. Arran. He the English against the governor, rested and imprisoned in Blackuntil 1544. He has also been acanection with the conspiracy which the murder of Cardinal Beaton, and ad a traitor and excommunicated. en prisoner at the siege of the castle rew, and in company with John others was sent to the castle of rance, where he wrote a work en-dession of Faith," which was pub-84. Balnaves returned to Scotland d was one of the commissioners on Queen Elizabeth, sent to the duke

EAU, or BALOUFFETEAU, JACQUES, chevalier d'industrie, born at St. ely about the end of the 16th cen-1 1628. He married and intrigued of women in different cities metimes he was the Baron de St. hers the Baron de Sainte Foy. Not h his triumphs over the credulity of n's heads and hearts, he determined e cabinets of France and England. ing a sham conspiracy to the French state he obtained 200 crowns; the ernment was still more credulous; revelation they gave Baloufeau g. He was afterward arrested, and hanged in France.

HDDER, a parish and village in cotland, 84 miles W. of Perth. The bout 20 miles long by 10 wide, and imits Rob Roy performed many of daring. His remains now repose

daring. His remains now repose to churchyard.

L, or TEMPLE BALSALL, a chapelry 1-in-Arden, Warwickshire, England, lation of 1160. The remains of the alsall, erected in the 12th century,

UNA, in botany, 1 of the 2 genera rose the order of the balsaminaces. cies, which are natives of the East China, but some of which have long 1 as favorite ornaments of European The generic characteristics of the a succulent stem filled with a the xe, simple leaves growing without

stipules, irregular flowers with one of the petals spurred, 5 stamens, distinct stigmas, and a cap-sule with 5 valves, and remarkable for the elastic force with which it bursts and expels the seeds. The B. hortensis, or garden balsam, a beau-tiful and popular annual, with finely variegated white, pink, red, purple, and lilac flowers, is the best known member of this genus. This loves a moist rich soil, and is raised best from the seed in a moderate hot-bed. The juice of some of the species of balsamina, mixed with alum, is

used by the Japanese to dye their finger nails red.
BALSAMINA, CAMILLA, an Italian singer
born at Milan, about the end of the 18th century, died August 9, 1810. Gifted by nature with a beautiful contralto, and by industry with a flexible vocalization, she was greeted with en-thusiasm wherever she went. In 1807, she was prima donna at the court of Prince Eugène, viceroy of Italy. Called to Paris for the occasion of the marriage of Napoleon with Maria Louisa, she was caught in a terrible storm on Mont Cenis. Her sufferings on this occasion threw her into a rapid consumption, and she returned to Milan only to die.

threw her into a rapid consumption, and she returned to Milan only to die.

BALSAMO, Paolo, an Italian priest and agricultural writer, born at Termini, in Sicily, March 7, 1763, died at Palermo, in 1818. He was professor of agriculture at the university of Palermo, and subsequently was sent by the Neapolitan government on a mission to Lombardy, France, and England. In England he became acquainted with Arthur Young, and subsequently translated some of his essays into Italian. On his return to Naples, he exerted much influence upon the financial concerns of the two Sicilies by his suggestions of reforms which were adopted by the king, who made him librarian of the royal library. Balsamo's labors and writings gave a powerful impulse to the agricultural interests of Naples and Sicily.

BALSAMS. By the French chemists this word is applied only to those resinous vegetable juices which contain benzoic acid; and of these there are but six, namely, the balsam of Peru, the balsam of Tolu, dragon's blood, benzoin, storax, and liquid amber. But by the Germans and English the term is not thus limited in its signification, being applied to all resins obtained from trees and abrube as also to some pharme.

signification, being applied to all resins obtained from trees and shrubs, as also to some pharmaceutical preparations, dividing them into two classes—one containing benzoic acid, and the other not. The former class, consisting of the 6 named, are aromatic, resinous substances, composed of resin, benzoic acid, and a volatile oil, the last, according to the quantity present, tending to give liquidity to the substance. They are soluble in alcohol, and water being added resin is precipitated, making the fluid milky. In ether they are only partially soluble, and not at all in water. The peculiar smell of the balsam is lost by exposure to the air. Their taste sam is lost by exposure to the air. Their taste is described as hot and acrid. The plants which furnish them belong to the orders styracea, to-guminosa, and balsamacea. The second class of balsams are the semi-liquid and resinous juices

Annuals balss 1 is the gum that exudes from also mir, ab w balsamea, of the northern. It is collected by breaking the vescicles form on the trunk and branches, and reties their contents in a bottle. Its color is their contents in a bottle. Its color is the turpentines. Its analysis is thus given Bonastre:

	per cent
Compatiel oil	18.6
Resia, soluble in alcohol	40.0
Resig. soluble with difficulty	. 88,4
Slastic resin	. 4.0
Bitter extraction and salts	. 4.0
	100.0

copaiba balsam is obtained from the copaiefficiality, a tree of Brazil and Cayenne, of yellowish color, semi-liquid consistency, the sharp taste, and a disagreeable suffocntable. It will dissolve one-fourth its weight whonate of magnesia, and continue trans-With alkalies it gives crystalline com-L. It contains an oil that dissolves caout-

Its composition, according to Durand, per cent
 Velatile oil.
 38.00

 Copalba scid.
 52.75

 Brown soft resin.
 1.66

 Water and loss
 7.66

Water and loss	7.59
	100.00
ane is principally in medicine, ar	
ten largely adulterated with cast	or oil, and
turpentine.—Mecca balsam, o	called also

chalam, is the product of the baleamoden-chalam, is the product of the baleamoden-chalam of the East. Its properties a similar to those of balsam of copaiba and sid turpentines. See Balm of Gilead. maintain to those of balsam of copaids and maid turpentines. See Balm of Gilead.

Balsthal, a beautiful valley, 16 miles me, on the Dünnenn canton Soleure, Switzered; pop. 8,500. The hamlet of Balsthal, pp. 1,000, is the principal place. The pass and the castles of Klus (pop. 800), with forges, and the castles of Falkenstein are at one end of the valley.

on foundaries, and the castles of Falkenstein at Blanenstein, are at one end of the valley.

BALTA, a town of Russian Poland, on the odema, one of the tributaries to the Bug, in government of Podolia, 132 miles E. S. E. Kamieniec, pop. 7,500. It is thriving and built. A suburb in the province of Khera, on the opposite side of the river, is just

neverse.

BALTARD, Louis Pierre, a French archi-act and engraver, born at Paris, July 9, 1765, and Jan. 22, 1846. He studied landscape lanting, but Peyre, the architect of the Odeon, prected his attention to architecture, and he applied himself to the study of this art with so the Pantheon and of the Paris prisons. The chapels of the houses of detention of St. Lazare and St. Pelagie, were executed by him. A remarkable structure, which in 1820 he erected upon the Boulevard Beaumarchais—a salt magazine, was unfortunately demolished a few years efterward. The great hall of justice in Lyons, VOL. 11.—35

founded in 1884, was devised and almost com-pleted by him. In acknowledgment of his emi-nent genius he was put on the committee of pub-lic works, and on the committee of buildings connected with the civil service. In 1818 he became professor at the academy of fine arts. He also acquired fame as an engraver and as the author of many superb works, descriptive of monuments, and illustrated by his own plates. He was the publisher of the "Athenaum," an art journal with engravings. He excelled at the same time in the engraving of historical and miscelleneous subjects.

and miscellaneous subjects.

BALTI, or Balts, the family name of the kings of the Visigoths. Alaric, the first among the barbarians who took and sacked Rome, was one of them. This family existed in Spain until the year 711. Next to the Amals, the Balts were considered among the Goths the most illustrious vear 711.

family. The founder was a hero who on account of his audacity took the name of Balt or Baltha, signifying audacious.

BALTIC SEA, an inland sea, in the N. W. part of Europe, surrounded and very nearly endead the Stroken Finland Praise. part of Europe, surrounded and very nearly enclosed by Sweden, Finland, Russia, Prussia, Germany, and Denmark; and communicating with the Cattegat and the North sea by the Sound and the Great and Little Belt. It begins at the verge of Norway, in long. 7° E. and extends to St. Petersburg, in the gulf of Finland, in long. 30° 28′ 45″ E. Its extremes of latitude are Wismar, in Mecklenburg, 53° 50′ N., and Tornea, on the gulf of Bothnia, 65° 51′ N. Its greatest length between these points is 900 miles. Its width varies from 180 miles—between Carlscrona and Memel—to 75 miles. Its area, in-Carlscrona and Memel—to 75 miles. Its area, including the gulfs of Bothnia, Riga, and Finland, is estimated at about 160,000 square miles. This is exclusive of the Cattegat and the Skager Rack, for which a further addition of 18,000 to 19,000 miles must be made.—The direction in which the Baltic penetrates inland is extremely tortuous. From its straits it runs first east to Memel, about 300 miles, then north as far as the latitude of Stockholm 59° 21', a further distance of 350 miles. It is to these portions that the term Baltic sea is in its limited sense restricted; for at this point it separates into two great gulfs. Of these the gulf of Finland runs nearly due east between Finland and Revel; while the gulf of Bothnia runs a little east of north between Finland and Sweden. The gulf of Finland is 200 miles in length, with a mean breadth of 60 to 70 miles. That of Bothnia is breadth of 60 to 70 miles. about 400 miles long, with 120 miles of average width, although at its narrowest part, at Quar-ken, opposite Umea, it is not above 40 miles wide; another important inlet is the gulf of Riga, or Livonia, south of the gulf of Finland, and stretching into the countries from which it derives one of its names, 80 miles from east to west, and about 90 from north to south.—The Baltic is extremely shallow, and its navigation is in many places exceedingly intricate. Its entrance or sound is crowded with islands and shoals, and as the Baltic

d to be an evil omen. Along ores and those of the isle of of amber are annually colntries surrounding the Baltic in useful natural products, and refore crowded with the ships the ancients were but slightly the Baltic. By them it was Codanus, gulf of the Gothin of the name Baltic is not some etymologists deriving it belt, a girdle; some from the white, in allusion to the great which annually falls in its Others have referred it to the in the previous article. old, and appears to have been um of Bremen, who described h century. The most common h century. The most common i, among the different people orders, is Ost-see, Eastern sea, rom the Western sea or Atlanmost important ports of the t. Petersburg, Dantzig, Riga, , Lübeck, Stockholm, Copena, and Konigsberg. a northern county of Mary n Pennsylvania and on Chesaded on the S. and W. by the nd comprising an area of some . large portion of the surface is eminences rise to a height of lewater. The principal varielewater. ranite, gneis, hornblende, lime-ne, and a ledge of primitive rock th-eastern part of the county. l chrome are found in considand there are beds of red and magnesia. Much of the land to soil is generally produce for grain or pasturage. In 55,224 bushels of Indian corn, 2, 280,288 of oats, and 21,810 ere were 22 cotton factories, ies, 10 of agricultural implehea, 111 of cabinet ware, 4 of icals, 13 paper mills, 2 glass-underies, 13 iron founderies, 46 ills, 8 potteries, 2 powder mills, es. The amount of capital infactures was \$9,929,232, and tricles produced was \$24,540,-

There were 162 churches in newspaper offices, and 10,308 public schools. Three railin this county, which is the and populous in the state. e; pop. in 1850, 210,646, of a slaves.

a city of Baltimore county, in the United States for size is situated in lat. 89° 17′ W., on an arm of the Patapss from its entrance into the and 178 miles from the Atniles N. E. from Washington;

97 S. W. from Philadelphia; 185 S. W. from New York; 398 S. W. from Boston; 160 N. N. E. from Richmond; and 590 N. N. E. from Charleston. The arm of the Patapsco on which the city is situated is about 3 miles long, which the city is situated is about 3 miles long, varying in width from \$\frac{1}{4}\$ of a mile to \$1\frac{3}{4}\$ mile, having its extreme breadth opposite to the eastern part of the city, a suburb called Canton. This inlet gives an easy access to the city, and a harbor sufficiently capacious to contain 2,000 vessels. This harbor is divided into an outer and inner bay; the inner bay is styled the "basin," and, having but 12 feet of water, is only navigable for small vessels. Great numbers of the bay craft moor in this Great numbers of the bay craft moor in this basin. The outer bay consists of a harbor between Fell's point and Canton on the north and east, and Whetstone point opposite, on the south, and is capable of floating the largest merchant ships. Owing to the accumulation of deposit for many years, the harbor had recently become shoal in numerous parts, but arrangements have been now made and a contract established for deepening the bed of the tract established for deepening the bed of the outer basin, and an appropriation has also been made by Congress to render the port available outer basin, and an appropriation has also been made by Congress to render the port available even for ships of the line and war steamers of the largest class. The entrance to the port is defended by Fort McHenry, situated on a point of land between the harbor and the Patapsco. This was successfully defended against the British fleet in 1814. An immense fortification is now in progress of construction on Soller's point flats, about 8 miles below the city. The general appearance of Baltimore is striking and picturesque, and the city appears to advantage from nearly every point of view. It is regularly laid out, yet with sufficient diversity to avoid tameness, its surface is undulating, its streets of good width, so that the most ample sewerage is obtained, and every thing of offensive nature being easily carried off, Baltimore, aided by its fine climate, is one of the healthiest cities in the American union, or, indeed, the world. An aspect of cheerful elegance pervades the city, which is peculiarly attractive to strangers; the larger mansions are generally in good taste, and not being densely crowded together, as in some of the more northern cities, but having in many cases handsome side-yards attached, they give an impression of space and comfort. In smaller dwellings, especially those for the workers in trades, neatness and thrift are displayed. In very rare cases are any of the Baltimore mechanics forced to live in large buildings, occupying 1 or 2 rooms for themselves, but nearly every respectable workman either owns his pying 1 or 2 rooms for themselves, but nearly respectable workman either owns his every respectable workman either owns his comfortable dwelling, or is able to engage one at a reasonable rent. Long rows of these modest but pretty tenements are to be seen in the highest and best neighborhoods of the city, as well as every other part of it; they form one of its marked features. The light and cheerful appearance of the city is greatly owing to the quality of the brick used in building.

the long since been altered. In 1780, the standard combined in Baltimore was established; that time, all registers and clearances the obtained at Annapolis. In 1784, the first market house which stood near the intersecmarket house which stood near the intersec-tion of Market with Gay streets, having been band inadequate to supply the wants of an in-reasing population was superseded by three law ones; the centre or Marsh market, the Hanover, and the Fell's point market. Several ther large and small ones have been added to these since that time, so that the city is abundantly furnished with provisions of all kinds. At the same time, 1784, the streets were lighted with oil lamps, and 8 constables and 14 watchmen appointed for the security of the town. For very many years past, great complaint has been made in regard to the police force of Baltanore, it has been quite insufficient to preserve **erder in so large a city, but repeated outrages** have, during the year past (1857), called for the establishment of a numerous corps of ableodied and active conservators of the peace. The new police number between 500 and 600 who are distinguished by a uniform. the close of the revolutionary war, the commerce and trade of the city rapidly increased, and a large number of intelligent merchants settled there. Some of the most enterprising of these were from the north of Ireland, of Scotch de-. scent, and by their exertions and wealth, Balimore became famed as a commercial port. s of packets and stage coaches were estab-Inhes of packets and stage coaches were established for communication with points on the inheres of Chesapeake bay, as well as in the interior of the state; in 1787 turnpikes were authorized to Washington, Frederick, and Reistertown, but were not fully completed until 1809. In 1789, the course of Jones's falls within the course o the city, which ran along by the site of the present court-house, was altered by cutting a new channel from Bath street to Gay street bridge, and the old bed of the stream was filled up. In 1792 a large number of refugees who had escaped from the massacre of the whites by the black slaves of St. Domingo, came to the city, where many of their descendants still reside. In 1796, the population being about 20,000, and the town having attained a high degree of prosperity, it was erected into a city, the corporation being styled the "Mayor and city council of Baltimore," and James Calhoon was elected as the first mayor. Since that date the city has rapidly increased in population, especially within the last 15 years, during which time the ratio of increment has been such as to surprise those even best acquainted with the resources and capabilities of the place. According to the following table, the population was,

In 1790 18,503	In 1890 80,625
1900 26,514	1840102,818
191085,589	1850169,054
18 3062,78 8	1855211,000

In the latest of these dates, the population is rated according to the state census, and as the business and extent of the city has very largely

increased in the last two years, it may now be fairly estimated at not under, and probably above, 280,000. Of the 169,054 persons under the national census of 1850, 140,066 were whites, 28,388 colored, 25,442 free, and 2,946 slaves. Of the free inhabitants, 130,491 were natives of the United States, and 35,617 of foreign countries.—To education great attention has been paid, and it is worthy of note that, while institutions of learning endewed by the catter has tutions of learning endowed by the state have in several instances proved signal failures, those in which the city of Baltimore has alone been interested, have generally flourished, particularly those of public character. In 1791, St. Mary's college was established; this was a Roman Catholic institution under the charge of the Sulpitian order, to which was united a seminary for the education of priests. This estab-lishment maintained itself with vigor for many lishment maintained itself with vigor for many years, possessing very extensive grounds and buildings, a Gothic chapel, and a library of 16,000 volumes. The seminary is still kept up, but the college was suppressed in 1851 by a mandate from Rome. Loyola College, in another part of the city, supplies its place for Roman Catholics; this is exclusively under the charge of Jesuits, and was formally opened Feb. 22, 1855. Baltimore College was chartered in 1803, and subsequently united to the charge of Jesuis, and College was chartered in 1803, and subsequently united to the medical school, under the title of the "University of Maryland," but the academical department, independent of the school of medicine, alone went into operation. This academy was not generally flourishing, and in 1854 was alone went into operation. This academy was not generally flourishing, and in 1854 was flually given up, and a scientific school established in the building. The medical school, on the contrary, has always been active; at one time it stood highest in the United States, and is now in excellent condition. It is a massive pile of building on Lombard street, and was completed in 1812. The Washington university was established in 1828, but has never been very flourishing, and its medical school is the very flourishing, and its medical school is the only department ever organized. The Baltimore female college was chartered by the state in 1829, and in its course of study and power of conferring degrees, is similar to the colleges for male students. The convent of the Visitation, and of the Carmelites, which are both extensive nunneries, have very large fe-male schools attached under charge of the sis-terhood; and beside these there are many excellent private academies for both sexes. it is in her public schools and their admirable management under the city government, that Baltimore may be most justly proud, and her school system is not excelled, if equalled, in any city of the union. The first public school was opened in 1829, and we gather from the 28th annual report of the commissioners to the mayor and city council, that there were (in 1857), under the control of the board, 77 schools, classified as follows: 1 male central high school; 2 female high schools, the eastern and the western; 12 male and 14 female gram-mar schools; 14 male and 28 female primary,

is also a railroad from Annapolis, the capital, which joins the Washington road.—The "Tide-water" canal, and the cake and Ohio canal, have neither proved rtance, so far as the interests of Balti-re concerned.—The total receipts of rland coal in Baltimore, for the year vere 446,981 tons; of grain, 11,043,700; is, exports of flour, 621,230; tobacco ed, 59,989 hhds.—With the vast increase city in the last few years her foreign city in the last few years, her foreign ree has not kept pace, and is not of the haracter that it was 80 years ago.kinds of vessels Baltimore excels; her ights are among the very first in the States, and many of the best and t ships of our mercantile marine, the Baltimore clippers, have been launch-m the dockyards of Fell's point.— of the public buildings are worthy of of the public buildings are worthy of eacity. The exchange is the largest. ains the custom-house, post-office, merbank, exchange reading-rooms, a vast a for public sales, &c., &c. The Atheis of the Italian style of architecture; tains the rooms of the historical so-the Baltimore library, containing 16, lumes; and the mercantile library asso-a very flourishing institution with a names; and the mercantile library asso-, a very flourishing institution, with a umber of members, and 15,000 volumes shelves. The Maryland institute, "for omotion of the mechanic arts," is a structure, 355 feet long by 60 wide; it all upon piles, and over the centre or market. An annual exhibition of the ts of American mechanical industry is the main hall, which is 260 feet long. contains a library, lecture-rooms, school gn, chemical school, &c. The present all, a very mean building, will soon be led by an elegant structure, at the inter-of Fayette with North and Holiday Many of the churches are very fine. man Catholic cathedral, the most imposn the form of a cross, and surmounted by dome and 2 bell towers. Baltimore being of the Roman Catholic primate of the States, the stranger, on high church may visit the cathedral, listen to exquisite and witness the full pomp of the Roman nial. St. Mary's chapel, the church of atius Loyola, St. Alphonsus, and many are rich in architecture and decorations. rotestant churches are very numerous, my are elegant.—Of other public build-he vast state tobacco warehouses well inspection. The Maryland penitentiary, spitals, infirmary, insane asylums, and ouse, are all under excellent discipline. charitable institutions relieve distress; lows' home, the male and female orphan is, both Protestant and Catholic, the e impartial society, &c., &c., are all actusefulness.—Several beautiful cemedown the outsiders of the circ the adorn the outskirts of the city, the

environs of which are remarkably attractive. —A fine climate, exemption from virulent dis-eases, the comforts and luxuries of life in profusion, a cordial but dignified frankness of man ner, a refined hospitality in the inhabitants of the city, combine to make Baltimore one of the most agreeable residences in the United States.

BALTIMORE, LORD. See CALVERT, CROIL-

BALTIMORE, IOED. See CALVARI, CHARLES, USA, and GEORGE.
BALTIMORE BIRD, or BALTIMORE ORIOLE (yphantes Baltimore, Linn.), belonging to the family of sturnida, and peculiar to the American continent, which it inhabits from Canada to Brazil. It is the most beauty admired both mer visitors, and is universally admired, both for the richness of its plumage and the sweetness of its song. It is also called "golden robin," "hang-bird," and "fire-bird." The adult male has the head, neck all round, fore part of the back, wings, and tail, black; quills, excepting the first, margined with white; the whole under parts, the lesser wing coverts, the posterior part of the back, bright orange, tinged with vermilion on the neck and breast; the tips of the 2 middle tail feathers, and the ends of the the 2 middle tail feathers, and the ends of the others, of a dull orange; bill and feet, light blue; iris, orange; length, 7\(\frac{1}{2}\) inches; extent of wings, 12 inches. This is the plumage of the 8d year, before which the colors are less bright, and more or less mixed with olive, brown, and white. The female is half an inch shorter, with the head, neck, and fore part of the back brownish black, mixed with dull yellow; hind part of the back, light brownish yellow, brightest on the rump; lower parts, duller than in the male. The orioles enter Louisians, probably from Mexico, in early spring, and gradually make their way north, to return in autumn. Their motions are very lively and graceful. They are often seen, clinging by the autumn. Their motions are very avery graceful. They are often seen, clinging by the feet, in search of insects, which form their principal food in the spring. Their song consists of feet, in search of insects, which form their principal food in the spring. Their song consists of from 4 to 10 loud, full, and mellow notes, very agreeable to the ear. Belonging to a family which usually lives in the tropics, where an inaccessible nest is necessary for protection against monkeys and serpents, the oriole retains the habit of suspending its nest, even in countries where these dangers do not exist. In the south the nest is made from the lightest most while in New England the softest and warmest materials, and the sunniest location, are selected. The nest is placed at the bottom of a very skillfully constructed network of strings and fibres, fully constructed network of strings and fibres, suspended, like a pouch, from the end of a branch, and shaded by overhanging leaves. The eggs are from 4 to 6 in number, about an inch long, of a pale brown color, spotted, dotted, and lined with dark brown. The period of incubation is 14 days. In Louisiana 2 broods are reared in a season. During migration their flight is high and straight, and mostly during the day. They are so little fearful of man that they build in the trees of a city, and over the they build in the trees of a city, and over the planter's door, as readily as in the silent woods. They are often kept in cages, and may be fed on

sm, a town of European Turkey, on the Black sea, 18 miles from Varna. In the neighborhood are some ruins of the ancient Tomi, the place of Ovid's exile.

BALU ISLAND, in the gulf of Martaban, Indian occan, at the mouth of the Salwin or Than-

Lyeng, a river which divides Siam and Burmah. It extends from lat. 16° 14' to 16° 81' N.,

being 17 miles long by 8 wide.

BALUE, JEAN DE LA, a French cardinal, prime minister of Louis XI., born at Verdun, in 1421, died at Ancona in 1491. He passed his youth in the village of Angle, in Poitou, and having entered orders, attached himself to Juvenal degli Orsini, bishop of Poitiers, whose confidence he managed to obtain. Being appointed his avenuor he defrauded the heirs of pointed his executor, he defrauded the heirs of a large part of the inheritance, and then enter-ing the service of the bishop of Angers he dis-

nguished himself by making a most scandalous affic in preferments. Yet he had the skill to traffic in preferments. Yet he had the skill to conceal these abuses from his master, and he was presented to Louis XI. by Charles of Me-

lun, the favorite of that prince. His subtle and intriguing spirit immediately gained the favor of the king, who made him his secretary and almoner, and gave to him the bishopric of Evreux. When Louis XI. was attacked by the favoridable learne of the "nublic right" it was formidable league of the "public right," it was chiefly the influence of Balue which made the

populace of Paris remain faithful to him, in spite of the seductions and menaces of the confederate princes. In 1467, his efforts for the abolition of the "Pragmatic Sanction," which the parliaments and universities conspired to-

the parliaments and universities conspired to-gether to uphold, gained for him from Rome the honor of a cardinal's hat. His passion for in-trigue led him now to betray his royal master, and in various plots which he contrived between the king and the dukes of Berry and of Burgundy he was faithful to no one of the parties. His correspondence was at length intercepted, and he was arrested; yet, as he had foreseen, his

mounted by a rail, and place on large buildings, above the protection to enclose bridges, altars, and the like.

BALUZE, ETIENDE, a French torian, born at Tulle, Dec. 24, 16

July 28, 1718. He early acquired his varied and thorough knowledged to Paris by the celebrated Coll missioned him to make up his part. 1707 he was appointed to th the royal college, and dismis

in 1709, being suspected of having généalogique de la maison d'Assaly established, by documentary the princes of Bouillon were d the ancient dukes of Guisene, vergne, and therefore owed no vergne, and therefore owen in the king of France. Such an od be forgiven; and Balnae, deprive his income, was compelled to rest at Rouen, Blois, Tours, and Or

until after the conclusion of the p was he permitted to return to l of the most amiable temper, as equal to his cheerfulness.

BALZAC, HONORE DE, one of minous and celebrated of French at Tours, May 20, 1799, died at 1850. There is nothing remarks tory of his boyhood. On leaving placed in a notary's office. He discontented with this position as the will of his father, to devilerature. He had no facility composition: his sivia was unform equal to his cheerfulne

composition; his style was unfo was not made either of his the of treatment. Before the age he had sent out to the world he These and twice and romances. that followed in the next seven y attempts in almost all varieties of

were comeys of apprenticeship

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If their inferiority, although modesty it a distinguishing characteristic of his Balzac was always as conscious as his nor would he even consent that they bear his name. They have been mostly ad since his death under the general title res de jeunesse. Meantime, though nally subject to painful depression of brought on by excess of labor, and lack-encouragement of public applause, he did erve from his fixed purpose and confi-of winning literary eminence. As yet uniary earnings were small; his means fron limited to the attainment of the ries of life. But to a man of the taste nperament of Balzac, luxuries are almost nportant than necessaries. His imaginas always as active in financial visions as realms of fancy, and indeed its predim that respect may be frequently obin his novels. Accordingly, in 1826 he led with himself a printer of the name bier, for the purpose of carrying on an were combined—paper-making was to so added—a great fortune was to have presult. Wealth was desired, not meremeans of gratifying this taste for art and I luxury, but as a means of relieving on the pressure of want and giving lei-r the elaboration of his literary works. of Balzac's laborious devotion to this s, the concern soon proved a lamentable after having been long enough in opera-involve him in debts and obligations m which in the end he relieved himself products of his pen. The first volume in he signed his name was Le dernier , published in 1829, a historical novel, in La Vendée, amid the scenes so faithescribed in its pages. His next work, legis du mariage, drew public attention peculiar originality and subtlety of the genius; La peau de chagrin, in 1831, at the general admiration. From this the close of his life, he continued to in rapid succession that remarkable f romances, novels, and tales, to which
the general title of Comédie humaine.
an of this work was large and compreto a degree that would have discourag-man of less boldness and laborious persee than Balzac from attempting its exe-He proposed to himself in it nothing an the complete delineation of every

an the complete delineation of every of modern French society. The fulfilf such a design is, perhaps, beyond the h of any possible individual intellect complete as he left it, and with all its id defects of execution, it remains a marmonument of genius and industry. Sof it, considered as independent works, Eugénie Grandet, César Birotteau, Le ne la vallée, Le pere Goriot, Balthazar Les illusions perdues, are masterpieces in

themselves. In all nearly 300 personages are brought before us. Some are rough-sketched with only an outline trait or two, others are drawn at full length, with all the accessories, with the extremest minuteness of detail; but each has as distinct an individuality as belongs to the personages of Shakespeare's dramas, or of the living world about us. Whether it be a finished portrait or a silhouette, the traits of one never run into or are repeated in another. The fop, the philosopher, the miser, the debauchee, the simple parish priest, the statesman, the petty shopkeeper, the artist, the almost angelic and the almost fiendish woman, are each in turn portrayed with equal vividness and truthfulness. Their actions are often extraordinary, but rarely extravagant, for they are the expression of passions developed with the utmost severity, but a profound and subtle severity of logic from natural premises. Balzac's peculiar merit lies in the analysis of emotions. In this respect to hear on the whole Balzac's peculiar merit nes in the analysis of emotions. In this respect he has, on the whole, no contemporaneous rival. Thackeray among the English is nearest to being his equal. His best works are distinguished for depth, acuteness, and boldness of observation, and a minute accuracy of external description and fulness of ccuracy of external description and fulness of detail that often become wearisome, clog the movement of the story, and detract from the interest that should centre round the main figure He is sometimes gross even to cynicism, which he mingles with traits of exquisite purity and he mingles with traits of exquisite purity and delicacy, but the grossness and delicacy generally reside in his subjects. He rarely projects his own personality. It has been regretted that he had no high ideal. But that did not enter into his system of art. He aimed to present the world as he saw it. He advances no theory, pretends to no moral teaching. Absorbed in the practice of anatomy, he gives no lessons in therapeutics. Treating largely of female emotions, he found among women his warmest admirers. On occasion of the publication of his Médecin de campagne in 1885, he received a letter of laudatory appreciation remaie emotions, he found among women his warmest admirers. On occasion of the publication of his Médecin de campagne in 1885, he received a letter of laudatory appreciation from the countess de Hanska, which was the commencement of a long and intimate correspondence between that lady and her husband and himself. After her husband's death, Balzac went to Russia and married the countess in 1848. His health was already seriously im-1848. His health was already seriously impaired by the excess of his intellectual labors, and the copious use of coffee, which he drank in large quantities as an habitual stimulus. A few months after his return from Russia, in the height of his fame and literary activity, he died

of hypertrophy of the heart.

BALZAO, JEAN LOUIS GUEZ DE, a pupil of Malherbe, and celebrated as a master of French prose, born at Angoulème, in 1594, died at Paris, Feb. 18, 1654. Having accompanied Cardinal La Valette as his secretary to Rome, his letters to his friends in France were greatly admired for their careful elegance and symmetry of style. They were not familiar letters but formal pieces of literature, composed to be circulated in manuscript in fashionable society.

On his return, Balzac was welcomed by the most influential persons at court, being held in particular esteem by the bishop of Lucon, who was soon to become the illustrious and allare mechanic maintain scho are taught. tribes and the powerful Cardinal Richelieu. The hotel Ram-bouillet, then the fashionable resort of nobles barra has a ve and wits, looked on him as one of its brightest ornaments; and the town as well as the court proclaimed him the most eloquent of French export ivory, towns on the merce throng along the M authors, and he was elected a member of the newly founded French academy by a unaniprincipal artic mous vote. His glory, however, was not without trials; he was violently assailed by critics, and coarse or for salt from and to avoid their annoyances he retired to the country, where he spent his time solely in answering the numerous letters incessantly pouroccupy his whole time, as he was a very slow and laborious writer, and would not allow one letter to go out of his hands without having

He was a been submitted to thorough revisal. man of honor, integrity, and benevolence.

BAMBA, the capital of a province of the same name in Congo, S. W. Africa. It is a considerable town. In the province are mines

of salt, silver, copper, lead, and iron.

BAMBARRA, an extensive district in the
N. W. central part of Africa, which lies between the meridian of Greenwich and long. 5°
W., lat. 9° to 16° N. The eastern part is a plain

party level, subject to overflow by the rivers W., lat. 9° to 16° N. The eastern part is a plain nearly level, subject to overflow by the rivers which intersect it, and which also turn a considerable portion of it into marshes. The western portion is hilly, and includes the eastern sides of the Kong mountains. The climate is sultry except in the hilly portions, where it is tolerably cool. The rainy season begins in the middle of June, and continues with violent winds and thunder, until November. The principal river is the Niger, which descends from the mountains near the western boundary.

which divides into 2 branches at a town called Sego, and reunites at a place called Jennee. Bambarra produces a great variety of garden vegetables; the indigo plant, which grows spontaneously, the butter tree, which yields an ash-gray butter, an article of trade, and some singular fruits, one of which, the rhamnus lotus, is acid in taste and resembles gingerbread in color. Many districts have expensive furgests and fine activities that the size for the size of the size gingeroread in control and districts have ex-tensive forests and fine pastures. Horood cattle, sheep, goats, and horses of a fine breed, are numerous. Poultry abounds in every district. The rivers of Bambarra supply an abundance of fish, which, dried, is an article of considerable The aborigines, who are the peasantry

of the country, are barbarous. They devour dogs, cats, rats, mice, serpents, and lizards. The Moors have established themselves in the towns along the Joliba, exercise a great degree of authority with the petty sovereigns of the country, and with the Mandingoes and Zoolaha two large negro tribes from the Kong moun-tains, who are Islamists. They compose the great part of the population of the towns, and

other Europe BAMBAS, Greek and are born upon the in February, education in l to 1821 in dir nasium of Ch professor of p then director upon the islan losophy and p professorship Athens, found plished schola many writing philosophical work on rhete cient and mod on ethics and Several of his tions. Bamb moral educati joyed a high c litical and re war of Greek quence and the mountains near the western boundary. Numerous villages lie upon the banks of this the western boundary. him great in public events. BAMBERG er Franconi about 8 miles and the Main branches whi tricts. These bridges, one feet long. B public buildin in the Byzan which has, the emperor church of St. golph's church building of que erected by th library very a lyceum in and divinity : fersors, a no a drawing free school,

B

experimental philosophy. There natomical, and chemical schools, 89, by Bishop Ludwig, of Erthal, "promoting genuine piety with," and a society for the encourhe arts and sciences. Bamberg e printed the first German book, ner's Fables," which bears the date as a gardeners' incorporation of, masters, workmen, and apprenanually 2 extensive fairs. Its sufactures are porcelain, gloves, tobacco, starch, marble wares, breweries. The shipping on the new railway communication with ontribute much to increase the cosperity. Population, 19,812, of Jews.

If o, a Dutch painter, better known me, Peter de Laer, was born at 13, died about the year 1675. He at Rome, where he enjoyed the esteem of many influential men. scellence as a painter lay in deof every day life. After residing Rome, he returned to Holland. Bamboccio was given him from eformity.

bambusa arundinacea), a genus grasses found in Asia, and in the out more extensively used in China r country. It has a hard woody the plant has attained any considwith hollow jointed stems. These coated with silex, and the plant retes the same substance bet amps, when it is called tabasheer. eckon an immense variety of it, potanist observing that he could the kinds, but would enumerate cipal varieties. The bamboo ocicipal varieties. rmediate place between the strict-sses, and trees, from its size frering like a tree but displaying finities in its internal structure. es it is nourished from the pith, n the ground at nearly the same are in maturity. It usually grows 40 or 50 feet, and beyond that d as extraordinary. 1 to 8 inches, and in the distances oints from 4 to 6 inches in some in others highly prized, from 4 to eaves are small and oval without ty of form, but sometimes of a luish hue. The color of the stoms yellow, but the Chinese possess changing this to chestnut, black, k bamboos are cultivated in the erich like any other rare plants, ror is said to have an officer con his palace whose sole duty it is ae bamboos in the imperial gar-alture varies greatly according to exposure, and the variety of the erally requires a sandy soil where

the roots will easily penetrate, and it is extensively grown along the shores of rivers, partly to give support to the banks, although the plant dies if its roots touch the water. It is always propagated by suckers, for it rarely blos and scarcely ever perfects its seeds. Plan Planting generally takes place in the spring and autumn, and requires very slight care; 4 or 5 years elapse before a plantation is considered ready to cut, and for this the winter season is deemed the best, as the wood is then the header. as the wood is then the hardest. The bamboo as the wood is then the intreest. The bamboo may indeed be styled the national plant of China, and the uses to which it is put by the natives are almost innumerable. The young and tender shoots are boiled and eaten, or preserved by the confectioners, and as sweetmeats are delicious. The roots serve many curious purposes, and among others for caricatures of men and animals. The slightest resemblance to any animal form is seized upon, and improved by carving, and even the fibres of the root are made to assume the shape of human heads and the manes and tails of dragons. The tubes are in constant use in many departments of human industry; not only are entire houses and boats built of them in some cases, but ornamental screenwork for interior decoration of dwellings; also the yards of the vessel to which the sails are fastened, and the tacking poles by which she is impelled in calm and shallow waters. The straightest of the tubes have been used for astronomical purposes, and cheap aqueducts in common use, formed by fitting the ends together for any required length, convey water. Sheds are made from the bamboo by softening it in water, and flattening the sections, and these when split finer are made into rain cloaks worn in wet weather, which bristling in all directions give their wearer the appearance of porcupines. Floats to tie on the backs of little children who live in the boats on rivers, as well as the poles by which strong coolies carry burdens, come alike from the plant. Water-wheels to irrigate the lands; fences to enclose them; coils of ropes; every imaginable article in furniture, chairs, tables, book-cases, boxes; hats, umbrellas, pipe sticks, fans, fan cases, cups, measures for grain; weapons, as shields, pikes and spear handles; the paper of which the book is made, and the sticks of the brushes with which the books are written all are formed from hamboo. books are written, all are formed from bamboo. The pith of it is used for lampwicks, and exquisite carvings inlaid with gold and silver and far more elegant than ivory work are produced from the hard stems. It is employed for the from the hard stems. It is employed for the pencils of the scholar, the brushes of the artist, and the ornaments of the delicate female; it descends at the nod of the judge on the back descends at the nod of the judge on the back of the criminal, and so constantly too, that the word bambooing has become proverbial for flagellation, and it forms part of the torture apparatus of the executioner. In short, its use in China is so universal, that it serves its purposes in every phase of Chinese life, either of pleasure or pain. In the islands of the Indian second the hemboo like the bread-fruit tree and ocean, the bamboo, like the bread-fruit tree and

analy to confirm the Christian faith, and all heretics and schismatics. One per-ter be chosen annually, who is to deliver that course between the commencement last month in Lent term and the end of third week in Act term. The lecturer is to the lecturer is to the heads of the colleges; he must taken the degree of M. A. either from the combridge; is never to be chosen a time, and the lectures are be delivered. Mary's church. Within 2 months after the lecturers. 30 copies of them delivery of the lectures, 80 copies of them be printed for private circulation to the craities, the mayor of Oxford, and the Bodlibrary. They are, however, golden and the lecturers embrace the names of Fished. eminent English divines. BAN, or BANUS (Slavonic ban, a lord), the of the governor of certain military districts the eastern part of Hungary, corresponding the German title of margrave. The ban is inated by the king, renders an oath to the and formerly had very extensive powers, sizing an almost absolute authority in the

sitical, judicial, and military affairs of his strict. The progress of Turkish conquest the unfortunate battle of Mohacz in the

Seh century extinguished the most of the mast, and there remains now only the banat. Temesvar, the ban of which is the third

erict.

est dignitary of the Hungarian kingdom, and the title of the ban of Croatia. BAN AND ARRIÈRE BAN, of France, the cire feudal levy of the realm, raised by public sclamation, ban, of the king, denouncing roclamation, ban, of the king, denouncing the ban comprised all the great vassals, holding the king for homage; the arrière ban indeed all the vassals, or tenants, of the second these. The whole ban and arrière ban, therefore, constituted the entire military force of the errown of France during the feudal ages, and arior to the establishment of standing armies. It could only be called out by the king in person, and usually only when he was himself in the field, although the leading of it might be, and often was even when the monarch was himself in arms, attributed to the constable, cr some other high officer of France. The calling out of the ban and arrière ban usually implied the invasion of the soil of France; the revolt of some great feudatories; or, in some serious way, the supreme peril of the crown and state. It was attended with solemn cereand state.

the displaying of the oriflamme, or sacred banner of the monarchy, green, langued with tongues of gold, emblematical of the fiery tongues of the Pentecost, by the count de Harcourt, who was the hereditary holder of that office.

BANANA, the musa of botanists, a herbaceous plant belonging to the natural order of the musaces. It is now abundant in the tropical regions of both hemispheres, but is thought to have been introduced into America from the East Indies. The trunk of the banana tree

onies, and on the assemblage of the powers, by

the displaying of the oriflamme, or sacred banner

rises from 15 to 20 feet in height, and is com-posed of the extended bases of petioles sheathed within each other. This trunk is terminated by a tust of large undivided leaves from 6 to 10 eet in length, and about 1 foot in breadth, from the midst of which proceeds the peduncle, which bears a large spike of sessile flowers. The fruit has nearly the form of a cucumber, becomes yellow when near maturity, is soft, pulpy, and of delicious taste, and is produced in great abundance, from 80 to 100 bananas being often found upon a single stock. There are 2 species, the musa sapientium and the musa paradisiaca, which differ but slightly, the fruit of the latter being a little shorter, straighter, rounder, and of more luscious taste. The name of this species is derived from the oriental Christians, who fancied it to be the tree of forbidden fruit in the garden of Eden; and travellers affirm that the banana tree alone would have been sufficient for all the necessi-ties of the first man. As an article of diet, its place could not be supplied in the warm cli-mates, where it grows almost spontaneously, and propagates itself by successive shoots, which start at various times from its roots, so that crops are produced at every season. It is at once agreeable and nutritious, and is the principal food of many families, both in the East and West Indies. It is commonly eaten raw, but is also baked into a kind of bread, and fried in fritters. No other plant produces the same amount of nutriment, from the same space of ground, as the banana. The tops of the young plants are also eaten as a delicate veg table, and the fermented juice of the trunks becomes an agreeable wine. The large leaves table, and the fermented juice of the trunks becomes an agreeable wine. The large leaves are used for thatching, basket-making, parasols, and table-covers, and are made into vases to hold water. Horses and other domestic animals are also supported upon the fruit.

BANANA ISLANDS, a group of 3 small islands on the western coast of Africa, near the south-western extremity of Sierra Leone, off Cape Shilling. They take their name from the largest, which is about 4 miles long and 1

Cape Shilling. They take their name from the largest, which is about 4 miles long and 1 broad, lat. 8° 8′ N., long. 13° 12′ W. They are high, fertile, and inhabited. The equinox tides rise here from 8 to 10 feet. They are interesting from their connection with the early history and seafaring days of the Rev. John Newton, the friend and spiritual adviser of the

poet Cowper.

BANANAL, an island in the river Araguay, province of Matto-Grosso, Brazil, which is also known as Santa Anna. It is 200 miles long by 85 broad, and covered with a dense forest. In its centre there is said to be a navigable lake 90 miles long by 80 wide. It is extremely fertile, and derives its title from the great increase

in the banana trees which were planted there in 1773 by the discoverers.

BANAT, a large Austrian province, comprising the 8 counties of Temesvar, Torontal, and Krasso, and 2 military districts, the German and Wallacho-Illyrian; pop. about 1,000,000.

It is 120 miles long from E. to W., and 98 miles mountains m broad from N. to S., at the extremes. The rivers Danube, Theise, and Maros, bound it on all sides save the E., where it becomes hilly. The surface, with this exception, is level, and on the W. somewhat swampy. It is also water. present abund greater part been explore jungle and fc on the W. somewhat swampy. It is also watered by the rivers Temes, Nora, Karasch, and the Alt Bega. The Neu Bega, a canal 90 miles long, is entirely within the province. The Banat is one of the most fruitful districts in that tin may found in man washing, and entirely in the of the island. Europe, its wheat having long been celebrated for quantity and excellence, while maize gives 24, 48, and as high as 60 fold increase. Good cotton is grown, vineyards abound, and much attention is paid to the rearing of the silk-worm. The mineral resources of the province have been comparatively disregarded; but an extensive coal-field has been recently discovered. BANBURY, a market and borough town in Oxfordshire, England, on the river Cherwell, 12 miles N. E. of Chipping Norton, and 17 miles W. of Wolverton, on the N. W. railway. Banbury tarts and Banbury cheese are famous all over England. The town has a population all over England. The town has a population of 8,715, and sends one member to parliament. It is neat and clean, and has a considerable carrying business by the Oxford and Birmingham canal, as well as a large market for agricultural produce. The large church is an imicultural produce. The large tation of St. Paul's cathedral. Among its educational establishments is a charity school.

tation of St. Paul's cathedral. Among its educational establishments is a charity school.

BANCA (Malay, bangka musuh, hill of the enemy), a considerable island of the Malay archipelago, bounded N. and E. by the China sea, S. by the Java sea, and on the W. separated from Sumatra by the straits of Banca, 120 miles long, one of the chief highways of European commerce in the eastern seas; area, 4,281 sq. m.; pop. in 1853, 43,000.—This island, chiefly noted for its tin, forms, with the neighboring gisland of Billiton, the southern extremity of the great Malayan tin district, of which the northern limit is Tenasserim, on the Malay peninsula, extending over 16° latitude and 10° of longitude. As we trace this tin field, beginning at its northern extremity, in lat. 12° 50′ N., we find the tin ore poor in quality and difficult to obtain—then increasing in richness and abundance as we proceed down the straits of Malacca, and along the eastern coast of Sumatra, until we find the richest and most abundant ere in tits southern extremity, Benea and the neighboring island of Billiton. All the cre worked in Banca has been found in the allavious or detritus of ancient mountains—what is called in mining language "stream.works,"—obtained in fact, by washing the soil with the rudget of rocker machines, in the same manner as for the most part gold was obtained during the early discoveries in California and Australia. No tin ore has ever been obtained by mining the rock containing veins of it, although it has been writed to them; but, no doubt, should such skill, enterprise, and machinery, as are now employed in crushing and smelting the quartz rocks of California, be employed in Benea, its

Dutch govern of the produc of commerce : government a the picul, or entire productons, nearly ½ nish mines, ar the latter in v mines for 180 florins; and, miners cost the mines and to Java, wher there for stor civil, military kept up chief tin—left a bal 2,000,000 flor what Banca population al mountain me the Dutch h civilize to an families, and they cultivate upon the spo and the meat great number guage, and sta the same as t of the Malay pa people preci gypsies in hab language. Th These dwell tion, and live little piracy. been so often among the sm whence they I small, unarme nese compose On account of these are sub by the govern main upon the of years, and other parts of continually China. W. monsoon, a 3,000 coolies a erned by their other parts of appointment f

nd there runs a chain of mounnd there runs a chain of moun-est peak of which, that of Maras, the bay of Klabat, has an eleva-feet. Manopim Hill, which is a :k for navigators, is 1,600 feet and has no lakes, but many mo-nerous small rivers, tangled with l rattans, and not navigable ex-a boats.—The mountain chain of boats.—The mountain chain of same direction as that of the la, and of the plutonic part of ung from N. W. to S. E., and it reclosical formation. The main the mountains is granite, cond, and iron. Next to the gran-nations of less elevation, there is the formation of red iron stone, geologists, and in the lowest breccias, among which occur the n and gold. The soil of Banca n and gold. The soil of Banca idered as decidedly sterile. It ayer of mould, from 1½ to 2 feet y lying over the iron stone or y described. Beside tin mining, industry of the island consists in industry of the island consists in of rice, and in raising a few fruits .—The plants of Banca are, with the same as those of that part its neighborhood. The whole a greater degree than usual, is forests, the marshy parts of it rable from tangled underwood. able products of the forest for wood, ebony, and beeswax; the ed very pleutifully. Of animals, ecies of wild hog, the same as ecies of wild nog, the same as which are very numerous; a stag, r, or kancheel, and the Malayan phant, the rhinoceros, and tapir, not exist; and the largest rapad is the musang, a species of pole s are for the most part the same matra. The pigeon family is renumbers and variety, 30 species ackned. Of reptiles, the alligations eckoned. Of reptiles, the alliga-ous and dangerous, being found and in the rivers and marshes. and molluses are abundant and y. The market at Minto is wenter a superstance of the market at Minto is wenter on, and with good oysters and can have no trade worth naming, ort of tin. The only place of own of Minto, situated on the safest roadstead on the straits of 1° S., long. 105° 5′ E., containing inhabitants, chiefly Chinese. nhabitants, chiefly Chinese.
of the Dutch resident, or govis a small garrison of Dutch cogether there are not more than upon the island.-On account of is island attracted no attention ery of its tin; which was made the same way that silver was first be Some of the inhabitants in

found that some superficial tin. ore use occur smelted in the process, and ore being songht for in the neighborhood, was found in abun-dance. This happened in 1709, and in 1711 the discovery was made known at Batavia to the Dutch. It is remarked, as a signal proof of the ignorance of the Malayan nations, that Javanese, the most advanced of them, should have been, after 330 years as sovereigns of Palembang in Sumatra, masters of Banca, with-out being aware that it had rich mines of a useful metal well known to them. The tin of Banca was no sooner discovered than the sultan of Palembang endeavored to establish a monopoly of it; and no sooner was it known to the Dutch that he had done so, than they sent an expedition to force a treaty upon him, securing to themselves the right of preëmption at a very small price. This state of things continued for a whole century, until the conquest of the Dutch possessions by the English, in 1811, when Badr-Oodin the cruel and energetic sultan of Palembang, hoping to gratify the English, put the whole of the Dutch at Palembang and Banca whole of the Dutch at Palembang and Banca to death. The return for this uncalled for act of friendship was the invasion of Palembang by the English under Gillespie, the defeat of the sultan, his dethronement, and the acquisition of Banca as a cession from his successor.

The inlend continued in the header, sition of Banca as a cession from his successor, in 1812. The island continued in the hands of the British till 1816, when along with the rest of their possessions in the archipelago, it was restored to the Dutch. These, in 1818, restored the old sultan Badr-Oodin, whose treachery brought on a bloody war of 2 years, which ended in 1821 by the conquest of Palembang, which with Banca has since continued in the which, with Banca, has since continued in the ssession of the government of Netherlands India. BANCAL DES ISSARTS, JEAN HENRI, a French revolutionist, born at St. Martin-de-Londres, Nov. 3, 1750, died at Clermon-French revolutionist, born at St. Martin-de-Londres, Nov. 3, 1750, died at Clermont-Ferrand in June, 1826, was a member of the convention, but opposed the extreme measures of the Mountain. Through the treach-ery of Dumouriez, to whom he was sent on a mission by the convention, he fell into the hands of the Austrians, who kept him and many other deputies in prison until 1795, when they were exchanged against the duchess of

burning the forest, in their rude culture of rice, found that some superficial tin ore had been

of the law authorizing divorce for incompatibility of temper. He wrote a work entitled, the "New Social System founded on Religion." BANCALIS (Malay name of a plant, naucla orientalis), an island of the Malay archipelago, on the N. E. coast of Sumatra, off the mouth of Siak river, area 410 sq. m.; population, supposed to be not more than 2,000. It belongs to the sultanate of Siak, in Sumatra; and is entirely covered with forest. Its inhabitants are very poor, subsisting chiefly on rice and fish, which abound in the neighboring waters. Coal has been recently found in this island, and on the neighboring main land.

they were exchanged against the duchess of Angoulème. He afterward proposed the repeal

BANCHORY DEVENICK 560

BANCHORY DEVENICK, a maritime parish in Aberdeen and Kincardineshire, Scotland, on the Dee, 5 miles S. W. of the town of Aberdeen. It has the remains of a Druidic temple, several large causeways, and a suspension bridge over Dee 305 feet long, for foot passengers.

BANCORA, a town of Hindostan, in the presidency of Bengal, 98 miles W. N. W. from Calcutta, on the great road to Benares. It is the capital of a district of the same name, which contains an area of 1,476 sq. m., and a population of 480,000. This district contains valuable collieries, lying as it does in the range of the great carboniferous and iron ore track of Bengal, communicates with Calcutta by a branch of

above sea level. BANCROFT, a northern county of Iowa, bordering on Minnesota, drained by Manketo river and its branches, and comprising an area of about 450 square miles. Several small lakes touch its northern boundary. It has recently

the East Indian railway. The town is of recent origin, and built at an elevation of 215 feet

been organized, and is not included in the state census of 1856. BANCROFT, AARON, a Congregational clergyman of Massachusetts, and author of a life of Washington, born at Reading, Nov. 10, 1755, died at Worcester, Aug. 19, 1839. His father, Samuel Bancroft, possessed eminent natural ability, filled many public stations with distinction, and is described as "a man of great herewishers comparation, and sympathy, indi-

benevolence, compassion, and sympathy; judi-cious in his thoughts and sentiments, and having the gift of utterance in an eminent degree." The son, who inherited his father's gifts, was strictly son, who inherited his lather's girs, was strictly educated in the Calvinistic system, and in his childhood heard only orthodox preaching; but by "the throes of his own youthful mind" and subsequent study, he was led to a belief more nearly resembling that of Arminius, Grotius, and Locke. When the American revolution came on, young as he was, he often took a place in a minute company, and though then a collection. minute company; and though then a collegian, he shouldered a musket as a volunteer on the day of Lexington and again of Bunker's Hill. After 4 years at Harvard college, and 1 or 2 years' study of theology, he began to preach. Of the next 5 years of his life, 8 were passed in Nova Scotia, principally in Yarmouth, Horton, Cornwallis, and Annapolia, among a mixed and unlettered population, where he was thrown on the resources of his own mind without libraries or learned divines; and this virtual solitude developed his talent for discrimination and confirmed the independence of his clear and characteristics. firmed the independence of his c ous intellect. In 1785 he was se nently in Worcester as a minister. his mind was courageous and I was fond of philosophical studies, and was fond of philosophical studies, and was acute logician. The English theological with whom he re al most were Locke, Tillotson, Sa nel Clarke, Whitby, Bishop Law, Bishop Batl and Price. With Priestley and Belsham he had admirty. Bes de occasional authors, chief in defence of religious liberty, he printed

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1808; gains very widely Whoever re Washington ume of doct the dogma most signali which was a

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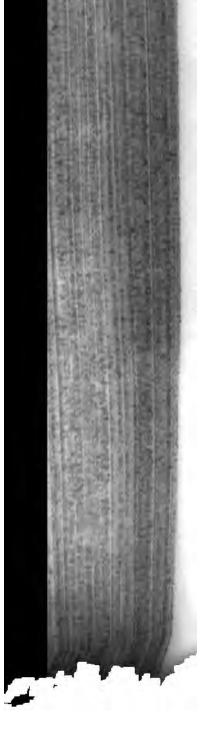
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d modern literature, started for the sof Germany. At Göttingen, where ed for 2 years, he studied German ander Benecke, French and Italian under Artaud and Bunsen, the orilages and the interpretation of the under Eichhorn, ecclesiastical and ecent ancient history under Planck natural history under Blumenbach, lly the antiquities and literature of Rome under Dissen, an enthusiastic Plato, with whom he went through a course of Greek philosophy, and e Greek nearly every one of the Plato. At this time he selected is special branch, giving as one of the desire to see if facts would not eories and assist in getting out the Having received at Göttingen in agree of doctor of philosophy, he re-Berlin, where he heard the lectures he renowned editor of Homer, of cher, and of Hegel. He was a herald rofessors of their fame in the new his ardor and accomplishments him a welcome reception. He was the houses of Schleiermacher, Willumboldt, the great lawyer Savigny, the future historian of England, von Ense, and other famed literary Ie availed himself of his stay in Berwe the administration of the Prus-ment in many of its departments, ing of 1821 he began a journey ermany and other parts of Europe. eady, in a Göttingen vacation, seen a galleries and principal men, and the acquaintance of Goethe at Jena. and erg he was several hours every day storian Schlosser, discussing history especially Dante, and read with him ek tragedies. In Paris he became ac-ith Cousin, and Alexander von Humparticularly with Benjamin Constant, nth in England, and returned to the > travel on foot through Switzerland. 8 months in Italy, formed an ac-with Manzoni at Milan, and a friende with Chevalier Bunsen at Rome, so knew Niebuhr. His time in Italy horoughly employed in studying the al government, and in seeing pic-ches, statues, and ruins. He return-rica in 1822, and accepted for one lice of tutor of Greek in Harvard

During his year of tutorship, he everal sermons, yet he seems not long ertained the thought of entering the fession. In 1823, in conjunction with a G. Cogswell, he established the l school at Northampton, in which a most learned young men of Germanloyed as teachers. The standard as ary school was too high for the standgiate instruction in this country, yet lone by this institution toward in-

troducing a better system of study and of class books. He published at this time his transla-tion of Heeren's "Politics of Ancient Greece," and a small volume of poems bore witness to the enthusiasm with which he observed the scenery of Switzerland and the ruins of ancient art in Italy. He was also busily meditating and collecting materials for a history of the United States. In 1826 he took the first step in his political career by delivering before the citizens of Northampton, at their request, an oration, in which he avowed his principles to be for universal suffrage and uncompromising democracy. He was elected in 1830, without his knowledge, to the general court of Massa-chusetta, but refused to take his seat, and the He was elected in 1830, without year after he declined a nomination, though year after ne decined a nonmation, mousia certain to have been elected, for the senate of his state. In 1834 appeared the first volume of his "History of the United States," the maof his "History of the United States," the mature fruit of a long-cherished purpose. In 1835 he drafted an address to the people of Massachusetts, at the request of the young men's democratic convention, and was for a time very actively engaged in speaking at public meetings, and in drawing up political resolutions and addresses. He removed in this year to Springfield, where he resided 3 years, and completed the 2d volume of his history. In 1838 he was appointed by President Van Buren collector of Boston, and the intelligence and vigor with which he performed the labors of this office won the applause of his political opponents. Duties were at that time paid by bonds, and unpaid bonds had accumulated to a large amount as debts to the government. Yet large amount as debts to the government. not a single bond taken during the term of Mr. Bancroft was unpaid at the time when he resigned the office, and his collections amounted to covered william. to several millions. He was at this period a frequent orator in political assemblies, was pursuing his studies even more zealously than ever before, and was particularly interested in the philosophical movement begun by some of the most cultivated persons of Boston, and subsequently known as transcendentalism. In 1840 the 3d volume of his history was published, upon which he had diligently labored amid many other engagements. In 1844 he was nominated by the democratic party as their candidated date for governor of Massachusetts, and though not elected, received more votes than any can-didate has received either before or since on the didate has received either before or since on the purely democratic ticket. During the long and violent canvass he was in the city of New York, studying, often for 12 hours in the day, manuscripts and documents illustrative of our early history. After the accession of Mr. Polk to the presidency, in 1845, Mr. Bancroft entered the cabinet as secretary of the navy. He signalized his administration of this office by the establishment of the naval school at Annapolis. The improvement of education in the navy had been desired by more than one of olis. The improvement of education in the navy had been desired by more than one of his predecessors, but little had been done to promote it, and Mr. Bancroft was the first to

he Promise of the Progress of which he delivered before which he delivered before torical society, at the celebraniversary. He is now vigorhis historical labor, passing
city of New York and the
a-side, at Newport, and occathe weight of his name and
tical cause by presiding and
lie meeting. lic meeting.
RICHARD, an English prelate, of Canterbury in the reign of at Farnworth, in Sept. 1544, Nov. 2, 1610. He was edu-ge, taking his bachelor's de-his master's degree 3 years entered orders, became chapop of Ely, who, in 1575, gave ory of Feversham. In 1584, I to the rectory of St. An-n, received the degree of doce next year, and, after having given to him, became one of Whitgift, archbishop of Can-whose influence, in 1597, he of London. The feebleness gave to Bancroft, from this iepiscopal power. He took a niepiscopal power. He took a 1 the disputation before King on court, between the heads ngland and of the Presbyterian Archbishop Whitgift died, in pointed to succeed him. In was a vigilant guardian of and a rigid opponent of Puwas the opinion of Lord ad his life been spared a few vould have broken down the he next reign, revolutionized t a treatise on the dangers of discipline. up of 10 islets in the Malay noted as the parent land of ey have been named by Malay
Nera, island of palm wine;
Ai, water; Suwanggee, soripi, fire; Lontur, a writing
lung, a chamber; Ronaguin, Kappal, horse; and Pulo a, united island; which des-It lies between lat. 8° 50' d Fort Belgica, on Nera, the h administration, is in long. Area of the whole group, 176 m., of which the island of Banda, forms 3. Api is a se most active volcano in the ugh its height does not ex-Many terrific eruptions have 1629, 1690, 1765, 1775, 1816, 52. During the last erup-ce caused the sea suddenly to nland, upon all the shores of up, for a distance of 3 or 4 ing villages and inhabitants; ips far in the interior. On

Dec. 21, the shock was felt in Java, and throughout all the great volcanic band of the Indian seas. A large portion of the inhabitants, who survived, fled to Amboyna. The population of the group has been recently estimated at 5,081. Of nutmega, their chief production, there is annually raised an average of 400,000 lbs.; and 130,000 lbs. of mace. The whole trade of the islands consists in the export of these 2 spices, and in the importation of rice, and other articles for the subsistence of the inhabitants.

BANDA ORIENTAL, formerly a territory of South America, E. of the Uruguay river, between Brazil and the La Plata. It was successions.

BANDA ORIENTAL, formerly a territory of South America, E. of the Uruguay river, between Brazil and the La Plata. It was successively under Spanish and Portuguese dominion, formed for a short time in 1815 a military republic, was united in 1821 to Brazil, with the name Provincia Cisplatina, subsequently became independent, and, in 1829, became a free republic, under the name of Uruguay. See URUGUAY.

BANDAGES, strips or bands of various ma-

BANDAGES, strips or bands of various material, employed by surgeons for the fixing of dressings, the approximation and union of cut or lacerated flesh and fractured bones, the compression of blood-vessels, and the support, and retention in their natural situations, of weak, protruding, or displaced parts. Bandages are usually composed of flannel, cotton, or linen; sometimes of stocking net, called "elastic web," or of India rubber interwoven with silk and cotton. They are named according to their construction, as simple and compound bandages; or in reference to the purpose for which they are applied, as the uniting, dividing, retaining, expelling, compressing, and suspensory bandages; or according to their form when applied, as the spica, from its supposed resemblance to an ear of wheat, the figure of 8, the stellated, or star-like, the spiral, and the reversed; or from their shape as prepared beforchand by the surgeon, as the T bandage, the many-tailed, the single and double-headed rollers; or in reference to some peculiar preparation, in order to adapt them to particular purposes, as the starch, the dextrine, and the plaster of Paris bandages.—The respective advantages of these different kinds of bandage are as various as their names; the many-tailed affords facility of adaptation to fractures of the upper and lower extremities; the T bandage, formerly in frequent requisition, has been generally superseded of late by the simpler and more manageable kinds, and is now rarely used except for the perineum and adjacent parts; the many-tailed is convenient for examinations of the wounded part, and a portion of it can be removed without disturbing the entire dressing; the elastic web and gum elastic yield to sudden swellings, and are freer from the dangers of undue compression; the starch, dextrine, and plaster of Paris bandages, afford firm and equable support without risk of displacement by the movements of the body, or common accidents, and enable the patient to

never pretended in his life-

OCHE, a valley in the departrance, celebrated as the scene berlin, the devoted Protestant thurchyard of the village of trance of the valley, Oberlin ain tombstone bears his name, n, "He was 60 years the father

EPH ERNST VON, one of the lof modern German sculptors, in 1800, studied at Munich, hibition of 1820, his statues "Charitas" were much adof the king of Bayaria, and an notabilities, displayed also lof his later works of art, and Psyche and a Venus, both The Spirit of Life," an altomarble, bear witness to his less in his art. His most fatis the colossal national Her-In the delicacy and elegance arble, he is hardly inferior to

MATTEO, an Italian priest 1 at Castelnuovo Scrivia, in 0, died at Agen, in southern 52. In the early part of his order of the Dominican friars. MATTEO, panied his uncle, who was ap-this order, on a visit to the Here many social op-Italy. ted themselves to the young he afterward availed himself and effect in his novels. For ciated as teacher of Lucrezia he afterward celebrated in ently resided at Milan, until, as ench, he was compelled to re-125, when the Spaniards took town. He found an asylum oso, an Italian general in the hom he accompanied to several ter Fregoso's death, he continte house of the general's family tually, in 1550, he was appoint-France bishop of Agen. He the emoluments of this office, s discharged by the bishop of levoted himself to completing e had written in Italy during hich some of his friends had he hands of the soldiers who Milan. These tales were first Milan. These tale ca, in 1554. A t London in 1740. A fine edition 40. A German ed at Frankfort in 1818. They 4 parts, the first 3 parts con-3 4th 28 tales. Although in-cio's in point of purity and age, they are distinguished by, and great originality of con-ecured for them an abiding aly in Italy, but also in England, where they attracted the attention of the dramatists of the Elizabethan era. The plots of Shakespeare's "Romeo and Juliet," "Twelfth Night," and that part of "Much Ado about Nothing," which relates to Don John, Claudio, and Hero, are all derived from Bandello. Massinger's "Picture" is taken from the same source. So are the plots in Beaumont and Fletcher's "Maid in the Mill" and the "Triumph of Death." Bandello translated the "Hecuba" of Euripides into Italian, and was also a successful writer of poetry, but his fame chiefly rests upon his tales, which have been immortalized by the cunning genins of Shakespeare.

cunning genius of Shakespeare.

BANDES NOIRES, an appellation given during the French revolution to companies of capitalists and speculators, who bought up, on speculation, the forfeited estates of the church and nobility. They were considered by many as hordes of Vandals bound to destroy the monuments which kings, nobles, and religious orders had erected all over France; and thence the scornful denomination, which was continued nearly up to 1830. But while the Bandes Noirea removed some castles and monasteries which ought to have been preserved as relies of artand religion, they did much toward the prosperity of the country, by improving unproductive lands and disseminating among the people landed property, which previously was concentrated in the hands of privileged classes. The term was originally applied to a body of German soldiers, who were employed in the Italian wars by Louis XII. of France, and who received the name from carrying black colors after the death of a favorite commander. The appellation was also assumed for the same cause by different Italian and French troops in the 16th century.

of a layofite commander. The appendict was also assumed for the same cause by different Italian and French troops in the 16th century. BANDETTINI, Teresa, an Italian poetess, usually known as Amarilla Toscana, born at Lucca, in 1763, and died April 5, 1837. Originally intended for a danseuse at the opera, she early showed such talent as an improvisatrice that the project was abandoned, and she was permitted to educate herself and to indulge her genius for poetry as she desired. In 1788, she published a volume of Rime diverse, and soon after, La Morte di Adone, a poem in 4 cantos, Il Polidori, &c. She was versed in several languages, and translated from the Latin and Greek with ease. Possessing remarkable powers of improvisation, she seems to have been fully appreciated by the Italian public; honors innumerable where showered upon her, the most distinguished men of the time walked in procession at her triumphs. Monti and Mazza, and even the severe Alfieri, wrote sonnets in praise of her genius and many virtues; her bust in marble was placed in the academy of Lucca, and in 1794 she was publicly crowned with laurel at Rome. She also received crowns from the cities of Perugia and Mantua. In 1789 she was married to Pietro Landucci. Her death, although at a great age, was lamented by all Italy, as well for her exemplary character, as for her great talents.

his brother artists. He was the chel Angelo, as well as of Bez and was accused of having der brated cartoon drawn by the for magna was convulsed with agitation, and the Bandieras endeavored to add fuel to the flame; but in vain, and they had to fly to Corfu, in 1844, to escape from the Austrian police. Their intention to win over to their cause the whole was cut to pieces by some or intention to win over to their cause the whole bavy and army, caused anxiety and dread to the government. The Austrian viceroy, Rayner, appealed to the mother of the young men, and offered them a free pardon if they would only desist from their purpose. Attilio and Emilio rejected the offer, and on being accused of high treason, they boasted of it in the papers of Corfu, and called on their compatriots to imitate their example. But this anneal was without a a revolution in Florence. by Pope Clement VII., and the e by look clearly and received from the latter of the order of St. James. At left to his children a large forthad accumulated by his industry BANDINI, ANGELO MARIA, 1 quary, born at Florence, Sept. was educated by the Jesuita, as orders, resided for some years a he pursued his literary labora w their example. But this appeal was without a response. Yet, destitute of means as they were, on receiving exaggerated news of an outbreak in Calabria, in 1844, they effected a landing with 20 friends near the mouth of the river Nieto, on June 16, of that year, in the hopes that their appearance would produce an electric effective effects of the contraction of the contract was discovered, he was employed order, to write a description of the took charge of the Maruer Florence, and in 1756, of the La office he held until his death in PANITTI. Nieto, on June 16, of that year, in the hopes that their appearance would produce an electric effect, and rouse the people to action. But the spies of the Neapolitan police caused them to be arrested near San Giovanni in Fiore, and on July 25, 1844, the two young men were shot, without trial, with 7 of their companions, on the public market-place of Cosenza. They died undaunted. Their last words were Vica PItalia! It should not here be forgotten, that the name of an English cabinet minister was mixed up with the tragic fate of the Bandieras. It was Sir James Graham, then postmaster general, who opened their letters to Mazzini, in the London post office, and played BANDITTI, a term Anglic Italian, at least as early as the Italian, at least as early as the speare, and signifying robber I the mountain passes of Italy. used by the Italians, generally, is among them signifies, according logical origin (bandire), persons outlawed, or put under the ban any political offence. The disce of the Italian states after the interest of the Italian states after the Italian stat the Italian states after their Mazzini, in the London post office, and played

Mazzini, in the London post office, and played the part of a Neapolitan spy and informer.

RANDINELLI, Baccio, an Italian sculptor, born at Florence, 1487, died in the same city, 1559. His father was a jeweller, but the young Bandinelli, evincing a talent for sculpture, was placed with Francesco Rustici, under whom he made great progress. He wished to surpass Michel Angelo, and with this object in view, attempted painting, in which, however, he did not succeed. Abandoning painting, he devoted

or the Italian states after their under the weak successors of originated and kept in employ outlaws. For slight offences the of these states pronounced the their subjects, which deprived protection, and made them at a to society. The rivalries existing princes made the outlaws of or

convenient instruments of an state of things was very soon pro the political power was fairly con

vigorous measures of the Roman states, in 3, and subsequently (1838), the efforts of Austrian government, the hordes who had led in the quiet occupancy of cultivated terry, have been compelled to a nomadic life in ntain passes and comparatively unfrequent-laces. From 1812 to 1823 was the golden I Italian bandits. They infested like locusts l places of Italian bandits. entire frontiers of the Roman and Neapolitan Since that time they have mainly been confined to Sicily. They used to occupy a pass alled the valley of Ponte di Bovino, on the road from Naples to the plains of Apulia, where they rere in the habit of plundering travellers. In by means of which they performed the set of their journey without molestation. They seve soldom broken their word either with their extary victims, or with those princes whose ch they have from time to time become for

BANDON, or Bandonseldes, a town in Ire-med, situated on both sides of the Bandon, 20 all built of stone from a neighboring quarry, as supplied with gas and water. The court man, market house, and bank, are the chief alldings. Bandon was peopled by a colony of glish Protestants. It contains 2 good classical methodist, and 2 national, schools. Twenty-five years ago it was a flourishing manufacturing anla. Also, a river in the county of Cork, which rises in the Carberry mountains, near Dunmanway, and, after a course of 40 miles in an easterly and south-easterly direction, enters the Atlantia, forming Kinsale harbor. It is navigable for vessels of 200 tons for 15 miles inland. Spenser sang of this river,
The pleasant Bandon, crowned by many a wood.

BANDTKE, or BANDTKIE, GEORGE SAMUEL, a Polish historian and biographer, born at Lublin, Nov. 24, 1768, died June 11, 1835. He was ed a private tutor, spending 2 years at St. Petersburg, where he studied the Russian and old Havonic literature. He afterward became scher of Polish in a public school at Breslau, phy in 1811, librarian and professor of biography in the university of Cracow. He wrote a Polish-German dictionary, a history of printing in Poland, and other works, among which his Drieje narodu polishiego (History of the Polish People) has a high reputation for thoroughness and shilling and ability

BANDUNG, one of the 11 districts which constitute the Prayangan, or Prianger regency, in the island of Java. It is situated S. W. of Batavia, and is one of the loveliest and most picturesque portions of the island. The Radens, or petty Javanese chieftains, of the district are noted for their hospitality and attentions to the few strangers who, notwithstanding the jealous restrictions of the government at Batavia, are occasionally permitted to pass into the interior to visit the native princes. Tankuban Prahu, the boat-mountain, and other remarkable natural curiosities, and many ancient ruins, are to be found here. Its chief culture is coffee.—Bandung, chief town; pop. 8,500; pop. of district, 202,000.

BANER, Johan, a Swedish general, celebrated for the prominent part which he took in the 30 years war, born June 23, 1595, near the 30 years war, born June 23, 1595, near Stockholm, died May 10, 1641, at Halberstadt, in Prussian Saxony. He was descended from a family of great distinction in Sweden, but his father was one of the councillors who had given umbrage to Charles IX., and was doomed to die on the scaffold, in 1600. When called upon to join the royal army, the young man refused to serve under a sovereign who had been the hangman of his father. After the death of Charles IX., however, he took an active part in the conflicts with Russia and Poland, and soon distinguished himself. We find him bearing the brunt of the battle of Leipsic, and sharing with Gustavus Adolphus the honors of the memorable victory at Pappenheim. After contributing toward the conquest of Augsburg and Munich he became commander-in-chief of an important section of the Swedish army, and, although he had been severely wounded in the attack upon the camp of Wallenstein, he was unwilling to desert his post, and actually succeeded, in conjunction with Horn, in expelling the enemy from Bavaria. After the king's death he was insected the Constitution with the superconduction with the supercon vested by Oxenstiern with the supreme command of the army. At first baffled in his operations against Bohemia, he soon vindicated the honor of the Swedish arms by a brilliant victory at Witt-stock, Sept. 24, 1636, which was followed up by a still more decisive triumph at Chemnitz in 1639. Elated by these repeated successes, he overrant the whole of Germany, and tarnished the glory of his life by the cruelties which he in 1639. inflicted upon the population. His attempt in 1641 to seize the emperor and his diet at Regensburg was frustrated by the difficulty of crossing the Danube, the ice of the river having suddenly given way. But for this accident his daring exploit would probably have been suc-cessful. Although many contemporary officers may have been superior to him in the knowledge of military science, he had few superiors in recklessness and impetuosity. As a man he incurred the censure of his contemporaries by his intemperate habits, and by the haughtiness of his disposition.

BANFF, a maritime county of Scotland; area, 647 sq. m.; pop. 54,171. The surface is greatly diversified, but generally mountainous and hilly. On the coast it is more level and the soil good. The northern part of Ben-Mac. Dhui, 4,362 feet high, and the eastern half of Cairngorm, 4,060 feet high, are in this county. In the southern part cattle-breeding is the principal occupation. There are several cairns, or The country

East India settlements.

nast india settlements. The country nding Bangkok is flat, contains rich iron and extensive forests of teak. The 1 trade is nearly monopolized by the governt by means of heavy restrictive duties, ok is subject to the visitation of destroyaldemics. In the support of 1940 the idemics. In the summer of 1849, the a was fatal to 20,000 persons in the of 12 days. NGLI was formerly one of the 9 inde-it principalities into which the island of as divided; but is no longer enumerated; the 7 states, forming the heptarchy the 7 states, forming the heptarchy now governs this island; being merged now governs this island; being merged a adjoining states of Mengooi and Gian-Bounded N. by Baliling, E. by Karang, 8. by Klongkong and Gianjeer, and W. ngooi. Pop. in 1842, according to M. s Hoopman, 30,000.

NGOR, a city and seat of justice of Penobunty, Maine, on the west bank of the Petriver at its function with the Kandust river at its junction with the Kendus-about 60 miles from the ocean, 68 miles agusta, the capital of the state. The union rivers affords a safe and capacious harbor, ble at the highest tides, which rise 17 the largest vessels. The city is situated h banks of the Kenduskeag, connected no stone bridge, toward which the printreets converge. There is also a bridge, treets converge. There is also a bridge, bet long, across the Penobscot, connectngor with Brewer. Many of the streets d and well shaded with elin trees. The and white in trees. The dealings are generally tastefully cond, and the public buildings lay consideration to elegance. The principal of the are the custom-house, situated over the skeag, a handsome granite structure, cost-00,000; Norombega hall, and market, the and best in the state, and the Representations of the state of the Representation of the state o and best in the state; and the Bangor a first-class hotel. There are 12 churches, l of which are greatly admired for their setural excellence. The growth of the received its principal impetus during the speculations" of 1836 and '37; pop. in 169; 1800, 277; 1810, 850; 1820, 1,221; 1,868; 1840, 8,629; 1850, 14,432; 1857, 7,000. It was incorporated as a city in Its chief business is in lumber, of which **17,0**00. at one time the leading market in the but since the Canadian reciprocity treaty ade has declined. It is also the centre of agricultural district. In 1852, about 0,000 feet of lumber were surveyed there. enduskeag, a short distance above the id throughout its entire course, as well as nobscot, a few miles above tide water, ses abundance of water power. The head of the Penobscot traverse immense of nine. spruce, and hemlock. The cutof the Penobscot traverse immense of pine, spruce, and hemlock. The cutdhauling of this to the river in the windriving" it to the mills, and "booming"
the spring—then sawing it into boards,
joists, shingles, laths, and every descrip"dimension stuff," rafting it thence to
seels in the harbor, and loading it on

board, give employment to a large number of vigorous and athletic men. About 2,000 vessels are annually engaged in this trade, during the 8 or 9 months in which the river is free from ice. The Bangor theological seminary, Trinis or 9 months in which the river is free from ice. The Bangor theological seminary, Trini-tarian Congregational, originally established in 1816, at Hampden, 6 miles below the city, occupies one of the most elevated portions of the town, overlooking the city and the Penobscot river. The seminary has 4 professors, 40 students, and a library of about 8,000 volumes. The public schools of Bangor are among the best in the state. They are divided into primary, grammar, and high schools. The amount annually expended upon them, by vote of the city, is about \$20,000. The Penobsot and Kennebec railroad, completed in 1856, connects Bangor with Waterville, where there are connections by railroad with Portland, Augusta, Bath, and other places. The Bangor and Pisca-taquis railroad, one of the oldest railroads in the United States, also connects it with Old-town, 12 miles above, on the Penobscot. There are lines of steamboats running to Portland, Boston, and the towns and cities along the river. Beside the manufacture of lumber, there are extensive iron founderies, furniture manufac-tories, planing mills, and ship yards. Two daily and 4 weekly newspapers are published here; there are 18 banks with an aggregate circula-

there are 18 banks with an aggregate circulation of \$300,000.

BANGOR, a city of Wales, county of Caernarvon, archbishop's see. It has a cathedral built on the site of an ancient church in the 15th and 16th centuries. It is much resorted to for sea-bathing.—There is also a Bangor in Ireland, county of Down, a place of great antiquity.

BANGOR MONACHORUM, a parish of North Wales lving partly in the county of Flint, and

Wales, lying partly in the county of Flint, and partly in that of Denbigh. It is noted for hav-ing once contained an immense monastery, which at one time is said to have had 2,400 A large number of these monks were by the Northumbrian Saxons. The celebrated Pelagius, and Gildas, the first British historian, are said to have been once residents at this

monastery. No traces of it are now to be seen.

BANGS, NATHAN, D. D., a minister of the
Methodist Episcopal church, born in Stratford,
Fairfield county, Conn., May 2, 1778. He commenced his public life as a school teacher and menced his public life as a school teacher and surveyor, and continued in these pursuits for several years, during which time he made a tour to Upper Canada. In 1800 he became the subject of converting grace, and shortly after, in 1801, being in the 23d year of his age, he entered the itinerant ministry of the Methodist E. church. His first appointment was to the bay of Quinte, Lower Canada, in 1802, and his subsequent appointments embraced the upper and lower provinces, extending from Detroit to Quebec. After remaining about 7 years in Quebec. After remaining about 7 years in Canada, he was appointed to circuits in the Albany district, and in 1808 was a member of the general conference. His first appointment

istinguished himself by his astonishing xy. Afterward, having observed the fals-f the popular systems of mythological retation, he devoted himself with great nity to that department of classical learn-The knowledge and judgment which he yed gained him great reputation, and sehis admission to the academy of inscripand belles-lettres.

NIERES, a French priest, lawyer, geomeoldier, poet, and actor, a versatile genius, at Toulouse, at the commencement of the century. His parents destined him for hurch, and he received a theological trainbut the bar drew him away from the L. He soon tired of law, and took to the of geometry. He then enlisted as a sol-

He had been a dragoon but a short time, he came out as a poet. He produced a for private theatricals, on the death of a Cassar, which was afterward played in at Toulouse, with himself in the principal oter. It is doubtful whether he obtained scharge from the service, but it is certain

be appeared henceforth as a professional His debut on the Parisian stage was in idates, June 9, 1729. His fiery Toulousan ar and provincial accent made the Parislaugh. After the full of the curtain the maan came forward. "Gentlemen," he through the property of the curtain the maan came forward. "Gentlemen," he "you have taught me a hard and hu-ing lesson; come and see on Saturday how I profit by it." The house was crammed sturday. Banières had almost overcome ovincialism. He kept on undaunted, and became the fashion. He afterward withbecame the fashion. He afterward with-from the stage, and his end is involved in rity. One account says that he was courtalled, and shot for desertion. Dumas has en a novel on his adventures

NIM, JOHN, an Irish novelist, born June, died August 1, 1842. He was one of the popular and truthful delineators of Irish cter, inferior only to Miss Edgworth, while orks of art his novels stand much higher her "Castle Rackrent," containing more hu-and incident. The various popular works of a intended to bring home to general read-apprehension of the lights and shades of country life have certainly contributed to dabroad a knowledge of Ireland, but wheth-impressions generally acquired from such as be correct is more than doubtful. Tales tories are usually written for effect, and the portraits and etchings thus placed before aling world have all the effect of high relief the depth of the contrasts. Banim's works ree from this exaggeration, although his are occasionally startling. The "Tales e O'Hara Family" are his earliest and best ection. He also wrote the "Croppy," the sounced," the "Smuggler," the "Mayor of gap," and "Father Connell," He received gap," and "Father Connell." He received all pension from the whigs in 1837, but he in poverty at Windgap Cottage, Kilkenny. NISHMENT, compulsory departure from

a country inflicted as a punishment. It was known both to the Greeks and Romans; it was either perpetual or temporary; the Romans had a punishment closely analogous to a system of a punishment closely analogous to a system of transportation, by which criminals were car-ried to some distant spot, where they were com-pelled to work and wear fetters. Banishment is a species of punishment unknown to the common law in the case of native born sub-jects, which, while it allowed men to be put to death, did not tolerate their enforced absence from their native land. from their native land.

BANISTER, a river in S. Virginia, rises in Pittsylvania co., and flows in a S. E. course to the Dan river, in Halifax co., 10 miles below the village of Banister. Batteaux can ascend it to Meadsville.

BANISTER, or HALIFAX COURT HOUSE, a post village, in Halifax co., Virginia, on the Banister river, 10 miles above its confluence with the Dan, and 120 miles S. W. of Richmond; pop. in 1853, 1,600. It is a place of great business activity. The Richmond and Danville railroad passes through it, and the river is navigable for batteaux from its mouth to Meads-ville, 10 miles above Banister. Six miles from the village a rich plumbago mine has recently been opened.
BANJARMASSIN

cently been opened.

BANJARMASSIN (Javanese, golden garden), a sultanate of the island of Borneo, of pyramidal outline; the apex or northern limit is Mt. Luang; bounded E. by Passir and Tanah Boemboe, S. by Tanah Laut and Java sea, W. by Banjer river, and N. W. by territories Dusun Ulu and Dusun Ilir. Area, 5,808 sq. m.; population, 620,000. It is noted chiefly for its coal mines, which have been worked by the Dutch, within the last 10 years, to much advantage. The coal is of the same quality as that worked by the English on Labuan, and at the mouth of Brunai river, on the northern side of the island; and it is evident, from recent researches, that they are continuations of the of the Island; and it is evident, from recent researches, that they are continuations of the same coal seam, stretching across the island 700 miles, which would make the Bornean coal-fields the largest in the world, after those of this continent. Convicts, mostly captured pirates, are the principal laborers in the mines of Banjarmassin; and by this economical management the coal can be produced at the mouths of the pits, at a cost of about 3 guilders, or a little less than \$1.50 per ton; it can be delivered at Batavia or Singapore, and sold profitably for \$5 per ton. The coal of Banjarmassin is of good quality, and resembles the Wigan or cannel coal.—Diamonds and gold are found in considerable quantity. The ratans of this territory are worth, in Indian markets, over 100 per cent. more than those of any other country. The present fashion of the ladies, wearing hoops, has given an immense stimulus to the trade in this article. Banjarmassin exported, in 1855, ratans to the value of 305,000 florins, or \$138,000; the export of 1858 will probably amount to \$500,000. One house of the city of New York ordered, in 1858, 1,500,000 lbs.

nk of Venice continued in existence without bearuption until the overthrow of the republic 1797, by the revolutionary army of France. The bank of Genoa was projected in the year 1845, but did not go into full operation until 1407. It was for centuries one of the principal institutions of its class in Europe. Within a nce of less than sixty years—first in 1746, and the in 1800—it was twice pillaged by a form foe, in the latter instance by the French my under Massena. From the effects of this ter it has never recovered, and it has ceased perform the general functions of a bank. The bank of Barcelona was established in the def 1401, that city having been during the dddle ages one of the most enterprising and parishing of the commercial cities of Europe. re it was that the system of negotiation of exchange was first instituted.—The 809; Holland being then possessed of an apportant foreign trade. The bank of Amsterwas a bank of deposit only, and the money in its possession was transferred on the books of the institution at the pleasure of its owner cowners. The primary object in the estab-blament of the bank was to give a standard cortain value to bills which might be drawn pon Amsterdam—rendered necessary by the spreciation of the coin, owing to its having son worn or clipped. Here these coins were serived on deposit, and had their value estabed by weight or fineness. It was not the lesign on founding the institution that the funds should at any time be lent out, but should remain in its vaults. However, the directors having lent to the governments of Holland and Friesland a large sum of money, the fact became known on the invasion of the French army and produced the wing of the institution.—The bank of Hamburg was established in the year 1619. This institution is a bank of based upon fine silver in bars. The stock of the bank arises out of the deposits, which are confined solely to silver. The bank of Hambarg differs essentially from any other banking of the world. matitution in the world. The difference at which it receives and pays out the silver deposits—about 1 of 1 per cent., constitutes the charge of the bank for custody of the funds intrusted to it. No institution in Europe at the present time enjoys a higher reputation for the manner in which, to the extent of the power granted, it conducts its business operations.

Although in some respects it has undergone changes in its management since it was instithe plan is essentially the same as it was insti-tuted, still the plan is essentially the same as it was in the year 1710. It is felt, as well by the mercantile community of Hamburg, as by those directly interested in the bank, that changes are necessary to conform to the present state of the present siness. It is deemed desirable that the bank should be enabled to make better use of its surplus capital, which owing to restrictions is almost valueless.—The bank of Rotterdam was

established in the year 1635.—The bank of Stockholm in 1688.—The bank of England was established in 1694—William and Mary then being on the throne. To the war with France and the extreme difficulty experienced by the government in raising funds for conducting that war, is the institution of this monopoly due. war, is the institution of this monopoly due. Like the earliest of these institutions, the bank of Venice, it owes its existence to the wants of the government which gave it life. The idea first originated with Mr. William Patterson, a merchant of London, who readily saw that the government, which had been paying interest at the rate of from 20 to 40 per cent. per annum, would, without much hesitation, grant exclusive and almost unlimited privileges to such parties as would in turn furnish it with to such parties as would in turn furnish it with a fixed and permanent loan, at a reasonable rate of interest. The plan being brought to the attention of the king was submitted to the privy council, when the details were completed, and it was laid before parliament. There, however, it met with the violent opposition of a formidable party. Nevertheless, the bill was carried by the government, and on April 25, 1694, became a law. It was provided that the capital, £1,200,000, should be permanently lent to the government at 8 per cent. per annum, and that in addition to the interest, an allowance of £4,000 per annum should be made by ance of £4,000 per annum should be made by the government for the management of the debt. So popular was the scheme, and so great was the desire of the public to become proprietors of the bank, that within ten days after the books were opened the entire capital was subscribed. The corporate title under which this institution commenced operations and has this institution commenced operations and has continued to the present day, is "The Governor and Company of the Bank of England." The bank was opened for business on Jan. 1, 1695; the stockholders having previously elected a governor, a deputy-governor, and a board of 24 directors. Those several parties were required by law to hold stock as follows: governor £4,000, deputy-governor £3,000, and director £2,000. The charter was granted for eleven years, and the officers were required to be elected annually between March 25 and April 25, after the year 1696. The bank immediately issued notes none of which were mediately issued notes, none of which were, however, of a smaller denomination than £20 sterling; and commenced discounting bills of exchange at rates varying from 3 to 6 per cent., distinction being made in favor of those who used the bank as a place of deposit. Within 3 years the institution experienced considerable trouble, under the influence of which its notes fell as low as 20 per cent. below par. Although notes to the amount of £480,000 were redeemed, it was found necessary in the year 1697 to increase the capital one million of pounds sterling. This increase had the effect within a few months of causing the stock not only to recover a discount of from 40 to 50 per cent., but to sell at a premium of 12 per cent. The capital has at various periods been as follows:

575 BANK

ch as were in existence May 6, 1844. rovides that no banker in England, or shall issue any bill of exchange or promisshall issue any bill of exchange or promis-te payable on demand, excepting such as were in existence May 6, 1844. That pany now consisting of 6 or less than 6 s, shall, if they exceed that number, be to issue notes. The important pro-designed by this act were that the bank ssue £11,000,000, for which the public te the bank should be security, and 000 on exchequer bills and such other nent securities as it might hold, but that nent securities as it might hold, but that ry pound sterling issued beyond the 1,000, the bank should hold an equal in gold and silver. An examination of rations of the bank will, we think, dete the fact that Sir Robert Peel entirely ehended the causes at work in produof fluctuations of the currency, and that ied the restrictions to that particular which varied but little in a series of The real cause of trouble was to be n the loans which have been almost irregular, and at times productive of jury. This injury has not alone been d to Great Britain, but in a greater or ree to every country with which intiasiness relations existed. That this act I no effect in mitigating this crying evil, clearly seen in the fact that these fluctures are represented in the proper violent than the proper with the country than the proper violent the country in the country with the country than the country with the country than the country that the country than the country that the c s have never been more violent than The British public has for s passage. s shown entire confidence in the circumedium, and no legislation to effect this was necessary. Within the 13½ years have elapsed since its passage, the operf this law has twice been suspended, as I this law has twice been suspended, as as it will be again whenever it is renecessary so to do. The first of these Oct. 25, 1847. The other on Nov. 12, Ithough within rather more than 30 days the last-named suspension, the rate of that been advanced from 6 per cent. to cent. per annum, without producing the for relief. The position of the bank in 857, at the moment at which the government of the same as critical in the extreme as nterposed, was critical in the extreme, as pear from the following statement of i, the day prior to the receipt of instructom the prime minister and the chancel-the exchequer, to wit:

ISSUE DEPARTMENT.

sued.....£21,141,065 Government debt.£11,015,100 Other securities......8,459,900 Gold coin & bullion...6,666,065

£21,141,065

BANKING DEPARTMENT.

tors' capital	£14,558,000
***************************************	8,864,856
Seposits	5,814,659
**	12,935,844
ays and other bills	858,075
	£87,090,434

Government securities, including dead weight annuities.

Other securities.

Notes.

Gold and silver coin.

Thus the bank had of gold and silver coin £504,448, and a reserve of notes to the amount of £957,710, with which to meet liabilities amountting to £19,103,078, and that at a time when there was a large export demand for gold, and England was in a state of "crisis." While the notes are a legal tender elsewhere they are not such with the bank for the payment of its debts. By the provision of the charter act of 1844, it will be observed that the gold and silver coin in the issue department, amounting to £6,666,-065, was entirely unavailable to the bank, and beyond the control of the banking departm Prior to the establishment of the bank of England, banking in London was conducted first by the Jews, who were succeeded by the Lombards, who were in turn supplanted by the goldsmiths. The latter lent money at rates much below those charged by their predecesmuch below those charged by their predecessors, and they issued promissory notes payable on demand, or at a certain period after date. These bankers deposited their funds at the royal mint in the tower of London. This practice was discontinued when Charles I. being in want of money seized the amount thus deposited, £200,000, by which means the bankers were utterly ruined. During the civil war the business of the goldsmiths largely increased, and during the commonwealth. as well as subseness of the goldsmiths largely increased, and during the commonwealth, as well as subsequently, various plans were devised by different individuals for the establishment of public banks. No action was, however, taken to mature and carry out these plans until the establishment of the bank of England. After the seizure of the funds by Charles I., it was the practice of the goldsmiths to deposit their surplus means in the exchequer, which funds were drawn once a week, to meet such demands were drawn once a week, to meet such demands as might be made upon their owners. Charles II. in 1672, being in want of money, closed the exchequer, and seized the funds belonging to the exchequer and seized the funds belonging to the exchequer, and seized the funds belonging to the goldsmiths, amounting to £1,328,562, on which there accrued 25 years' interest, making thereby a sum total of £3,821,313. No consideration was given for any part of this large sum, except £664,263, for which government loan was issued—forming the basis of the present nation. issued—forming the basis of the present national debt of Great Britain. As may readily be imagined the goldsmiths were ruined irretrievably by this infamous proceeding.—The earliest country bank established in England of which there exists any record, was at Newcastle-on-Tyne, in the year 1755. This was a bank of issue. From that period the number of these institutions increased. On the renewal of the charter of the bank of England in 1708, the bank obtained the privilege of banking to the exclusion of all copartnerships of more than 6 persons. In consequence of this law, the various joint stock banks in existence at the time were compelled to wind up their affairs. BANK 579

may give one year's notice of its intento discontinue it, in which event it will the bank in full such sums as may be o it.—Banks also exist in Lisbon, Mad-Naples, Rome, Stockholm, and various of the commercial centres of Europe.—ing in the United States. The Bank of North ica. During the war of the revolution, the ess of the United States experienced great sty in providing the requisite means for caron hostilities. On May 10, 1775, soon after the of Lexington, congress made preparato issue continental paper—\$2,000,000 sich were put in circulation on June 22 ing. From month to month these issues, in the aggregate reached \$300,000,000, ciated until eventually they became entirentless, notwithstanding the passage of laws g them a legal tender for the payment of On May 17, 1781, a plan of a national was submitted to congress by Robert Mor-

g them a legal tender for the payment of On May 17, 1781, a plan of a national was submitted to congress by Robert Mor-Pennsylvania, the principal provisions of were as follows:—The capital to be \$400, a shares of \$400 each; that each share be d to a vote for directors; that there be 12 ors chosen from those entitled to vote, it their first meeting shall choose one as ent; that the directors meet quarterly; the board be empowered from time to o open new subscriptions for the purpose reasing the capital of the bank; state-to be made to the superintendent of the es of America; that the bank notes payn demand shall by law be made receivathe duties and taxes of every state, and the respective states by the treasury of nited States; that the superintendent of sances of America shall have a right at nes to examine into the affairs of the On May 26, congress passed the follow-

On May 26, congress passed the follow"Resolved, that congress do approve of
lan for the establishment of a national
in these United States, submitted for their
leration by Mr. R. Morris, May 17,
and that they will promote and support
me by such ways and means, from time
a, as may appear necessary for the instiand consistent with the public good:
the subscribers to the said bank shall be
orated agreeably to the principles and
of the plan under the name of 'The
ent, directors, and company, of the bank
of the plan under the name of 'The
ent, directors, and company, of the bank
of the plan under the name of 'The
ent, directors, and president
a, and application for that purpose made
ngress by the president and directors
d."—On Dec. 31 following, congress
l "an ordinance to incorporate the subrs to the bank of North America." The
president was Thomas Willing, and the
formed a most important auxiliary in aid
s finances of the government to the final
sion of the war. This institution was
rorated by the state of Pennsylvania, on
18, 1782. The bank commenced business
a, 1782, with a capital of \$400,000,—of

which \$254,000 had been subscribed by the government. In the year 1785, when an ill-feeling had arisen between the government of the state of Pennsylvania and the bank, the former repealed the charter which it had granted in 1720. The bank however continued its former repealed the charter which it had granted in 1782. The bank, however, continued its operations under the charter granted by the general government until in 1787, when it was rechartered by the state of Pennsylvania. It has, from time to time, been rechartered, and now has a capital of \$1,000,000.—The First Bank of the United States. On the organization of the government of the United States. Bank of the United States. On the organiza-tion of the government of the United States under the constitution, Alexander Hamilton, in his masterly report on the finances in 1790, urged upon congress the importance of establishing a bank of the United States. This measure, although it met with vigorous opposition in house of representatives, passed that body Feb. 8, 1791,—having on Jan. 20, passed the senate with but slight resistance. The following abstract of the 12 clauses of the charter will give an idea of the act: 1. The capital shall be \$10,000,000, to be divided into 25,000 shares of \$400 each. 2. Any person, copartnership, or body politic, may subscribe for such number of shares as he, she, or they may think proper. of shares as he, she, or they may think proper, not exceeding 1,000, except as regards the subscription of the United States. The subscriptions, except those of the United States, shall be payable 1 in gold and silver, and the remaining 1 in certain 6 per cent. stocks of the United States. 3. The subscribers are incorporated under the name and style of "The president, directors, and company, of the bank of the United States," and to continue until March 4, 1811. The bank is authorized to hold property of all kinds, inclusive of its capital, to the amount of \$15,000,000.

4. Twenty-five directors are to be elected by a purplish of the vector cart, on the last Monday. a plurality of the votes cast, on the 1st Monday in January of each and every year, for one year only, and the directors are empowered to choose one of their number for president. 5. As soon as the sum of \$400,000 is received on account of the sum of \$400,000 is received on account of the subscriptions, in gold and silver, on proper notice being given, the bank may be organized. 6. The directors are authorized to choose such other officers, clerks, and servants, as may be necessary for the bank, and shall otherwise manage the affairs of the bank. 7. otherwise manage the aftairs of the bank. This clause prescribes the "rules, restrictions, limitations, and provisions which shall form and be fundamental articles of the constitution of said corporation." 8. If the corporation or any person or persons, for or to the use of the same, shall buy or sell any goods, wares, or merchandise, whatsoever, contrary to the provisions of the act, such person or persons shall forfeit and lose treble the value of said goods, wares, and merchandise, ½ to the United States, and the remainder to the informer. 9. If the corporation shall loan to the government of the United States any sum of money to an amount exceeding \$100,000, or to any state to an amount exceeding \$50,000, or to any foreign prince or state (unless previously authorized BANK 581

of disaster under which banks as well as indi-

on, throughout the country. On Jan. 15, mpliance with an act of the legislature, it 4. On winding up its affairs, after pay:
of its debts, there remained nothing to its cholders—the entire capital having been .—The charter of banks throughout the s is wholly in the hands of the state auties, and there are at present in existence,
1,400 of these institutions, with their
ches. In the New England states, comag Maine, New Hampshire, Vermont, Massetts, Rhode Island, and Connecticut, there in 1856-57, 507 banks and branches, with ital of \$114,611,752. The first bank which regularly into operation in any of the s was established in the city of Boston, in , where it still exists. In these states these tations are generally established under spe-charters—although "free banking" laws been enacted by Vermont, Massachusetts, Connecticut. These laws have been in aleach instance a dead letter, comparatively use having been made of them. An imwhich is worthy of notice, is what is known to "Suffolk bank system." This system originally established by 5 of the Boston for the purpose of collecting the notes spein banks, appointing one manhance. reign banks, appointing one member of a nittee to superintend and manage the opersof the "associated banks." This comse appointed an agent to receive and credit amount of foreign money taken by these s, and to keep an account of the same. expenses of collection and keeping these ants, as well as all losses on foreign money, to be borne by these institutions in pr on to the amount received on deposit by. The facilities thus granted in the deposit ese funds, and in their redemption, and the ations becoming more extended, the entire sement of it was eventually placed in the of the Suffolk bank. Each bank made a lated deposit, in the aggregate amounting 800,000, on which no interest was paid.

y degrees the country banks made their to time reduced. The Suffolk bank now
ms at par the bills of all New England
s making deposits with it, and through the
agement of this agency is furnished with a sing capital of \$1,000,000, without any ser cost than the salaries of the clerks emed in the work. The annual amount of redemptions made by this institution is t \$350,000,000. The bank of mutual resting was chartered in 1885 with a view t \$350,000,000. The bank of mutual reption was chartered in 1855, with a view aking in part the place of the Suffolk, but has not yet gone into operation. September, 1856, the number of banks peration in the state of New York was with a capital of \$96,381,301. Bankin this state commenced in the establisht of the Manhattan bank in 1799. The country having passed through a period

of disaster under which banks as well as inquiduals and corporations generally were ruined in great numbers, the legislature of this state was induced to pass in 1829 what was termed "the safety fund system." The principal features of this experiment were that each bank acting under it should contribute annually a sum equal to $\frac{1}{2}$ of 1 per cent. on its capital to a common fund to be deposited with the treasurer of the state as a bank fund until it should of the state, as a bank fund until it should amount to 3 per cent. on the capital of the banks. Such part of this fund as might from time to time be necessary, was to be applied to the payment of the debts of each and every bank fulling which had contributed to it. bank failing, which had contributed to it. Any diminution in the funds by such payments was again to be restored by annual payments as be-fore. The failure of 10 banks with liabilities to the amount of about \$2,500,000, considerably more than the entire fund, caused it eventually to be abandoned. In 1838, what was termed a "free banking" law was enacted, which pro-vided that any individual or association might engage in the business of banking on depositing with the state comptroller the stocks of the United States or of any state, which were equal to 5 per cent. stocks; and bonds and mortgages on real estate worth twice the amount of the on real estate worth twice the amount of the mortgages over and above all buildings thereon, and bearing interest at the rate of 6 per cent. per annum. On receipt of such securities, the parties furnishing the same were to receive an equal amount of notes, numbered, registered, and signed. Difficulties having arisen in converting these securities into funds sufficient to redeem the notes, in 1840 the legislature revised the law so that the stocks of either the United the law so that the stocks of either the United States or of New York, or bonds and mortgage were required as security.—Weekly returns of the condition of the banks in the city of New York are required to be published, and in Oct. 1853, a clearing house was established in that city. "Free banking," or general banking laws, have also been enacted with varied success, in the following states: New Jersey, Virginia, Indiana, Illinois, Wisconsin, Tennessee, Louisiana, and Alabama. In all the remaining states of the union, except in California and Arkansas, where no banks exist, they are chartered by special acts of the several legislatures. All legislation respecting these institutions in the district of Columbia is under the control of the congress of the United States. In the autumn of 1857, nearly all of the banks from one end of the union to the other suspended specie payments, in a majority of cases to resume within ments, in a majority of cases to resume within a few months, with but comparatively little loss to either stock or note holders. Among those, however, which were unable to resume was the bank of Pennsylvania, in the city of Philadelphia, with a capital of \$1,875,000, which was compelled to make an assignment in Feb. 1858. The condition of the banks on or about Jan. 1, of each year between 1837 and 1857 inclusive, is exhibited by the following table: following table:

But the condition which is made the

NK, in law, the bench or seat upon which dges sat; in old English law applied to art itself (see Benoh). The term is still a some extent to express a session of the of a court to hear arguments upon quesflaw. Days in bank were certain stated or the appearance of parties, the return cess &c.

cess, &c.
NKES, Sir John, an English jurist, lord ustice of the common pleas in the reign arles I., born at Keswick, in 1589, died 8, 1644. He left the university of Oxfore taking his degree, and applied him-London with the greatest assiduity to dy of law. After filling smaller offices, 4 he became attorney-general, and rethe honor of knighthood. In 1640 he

14 he became attorney-general, and rethe honor of knighthood. In 1640 he ded Sir Edward Littleton as chief-justice common pleas, and was distinguished for ralty to the king during the times of the tion. In 1642 he was created doctor of y the university of Oxford, and admitted te king's privy council. At the outbreak civil war he pronounced the conduct of rliamentary generals treasonable. The nent in turn immediately declared him is associate judges traitors, and sent a to attack his residence, Corfe castle, isle of Purbeck, which was courageously uccessfully defended by Lady Bankes her servants and retainers. Sir John s had a high reputation for legal learned upon his death was buried in the ral of Christ church, Oxford.

NKES, WILLIAM JOHN, an English poliand writer, died at Venice, April 15, He was a graduate of Cambridge, and 810 to 1812 a member of parliament for rough of Truro. In 1822, he was returned university of Cambridge, but lost his seat next election. Subsequently he reprethe borough of Marlborough and the of Dorset. He accused Mr. Joseph Silk agham of having, in his book on Palestine, I notes and drawings which he (Bankes) ade during his journey in that country. nekingham prosecuted him for libel, and a was sentenced to pay damages to the of \$2,000. In the latter part of his life ided much at Venice, and translated from alian "The Narrative of the Life and tures of Giovanni Finati," &c., which ablished in 1830.

NKRUPT (Lat. bancus, a bench, and rupoken). As early as the Norman conquest
rm bancus or bancke was used to express
ch, table, or counter, upon which goods
exposed for sale or money for exchange,
se the term bankrupt became the designaf a trader who had been broken up in
ss. It afterward was applied in a legal
to a person committing certain acts specithe English statutes relating to bankf. In its more ordinary acceptation, bankf, however, expresses inability to pay one's
being in that sense the same as insol-

basis of proceedings under the bankrupt laws is peculiar. The English system has no other in-terest to us than what arises from our commerterest to us than what arises from our commercial relations with Great Britain, which would hardly justify an elaborate exposition of all its details in a work of this kind. After two experiments made in this country, which will be subsequently referred to, it has been thought that a national bankrupt law cannot be made permanent. The insolvent laws of the several states substantially answer all the exigencies of debtors, though differing from the bankrupt laws of England in lenity to the debtors and facility and inexpensiveness of the relief afforded. The theory of bankruptcy in England is that it is a criminal offence, and the proceeding is in form hostile to the party charged with being bankrupt. The first bankrupt law was enacted in the reign of Henry VIII., in which act the persons amenable to its provisions are described as "those who obtain other men's goods on are distributed by the to perts unknown. credit, and then suddenly flee to parts unknown, or keep house, and there consume their substance without paying their debts." In substance without paying their debts." In substance with character of the bankrupt was defined with more precision, and by the term is now understood a trader who shall do certain acts specified in the statutes which are declared to constitute bankruptcy. Among the acts so specified, the most material are: leaving acts so specified, the most material arc: leaving the country under suspicion of doing so to avoid payment of debts; keeping concealed so that process cannot be served; making a fraudulent disposition of property; imprisonment 21 days for debt; a petition as an insolvent in the insolvent debtor's court; making a general assignment for the benefit of creditors, even if it be without fraud. An act of bank-matery having been committed a commission even it it be without fraud. An act of bank-ruptcy having been committed, a commission may be issued upon the petition of a creditor, who is thereafter in the proceedings called a petitioning creditor. Under the commission proof is taken before one of certain officers designated as commissioners of bankruptcy, and upon an adjudication of the sufficiency of the proof, assignees of the estate of the banksuptcy proof, assignees of the estate of the bankrupt are appointed, being chosen by the creditors, with an additional one appointed by the court. with an additional one appointed by the court. The decision of the commissioner is subject to review in a court of review in bankruptcy, from which court an appeal lies to the chancellor, and thence to the house of lords. The bankruptcy, when established, relates back to the time when the act of bankruptcy was committed, and the assignees will take all the estate which the bankrupt had at that time all transwhich the bankrupt had at that time, all transactions by him subsequent thereto being held void except in favor of parties who have dealt with him without notice of the act. Ample power is given to the assignees to compel a discovery of property by the bankrupt, and his refusal to make such discovery, or to surrender property when discovered, is declared to be felony, and subjects him to transportation for life. The estate so held by the assignees is for

BANKS 585

works as acting plays, is very consider-

NKS, Joun, who was born in 1709, and in 1751, was an author by accident.

a weaver's apprentice at Reading, he
his arm, which disabled him from purnis trade. Repairing to London with £10, t of a relative, he commenced bookselling all way. The loss attending the publiof the "Weaver's Miscellany," drove seek employment with a bookbinder, Montague. While in his service he Montague. While in his service he some indifferent poems. Subsequently sted in editing a life of Christ; wrote a ful review of a life of Oliver Cromwell,

itul review of a life of Oliver Cromwell, blished a number of articles in the "Old id" and "Westminster" journals. KS, Sir Joseph, an English naturalist iveller, born January 4, 1743, died June 19, After 4 years residence at Barrow he removed to Eton, where, at the age he first showed a taste for botany, which ivated with enthusiasm and success durs residence at Oxford. He graduated and, in 1764, at the age of 21, came into ernal property, which was considerable. ears later, he became fellow of the royal , after which he made a voyage to New-and, with Lieut. Phipps, of the royal to collect plants. On his return, he comd an intimacy with Dr. Solander, a Swede, pil of Linnæus. The 4 years following inks devoted to the study of botany and I history, and, through the interest of the Sandwich, who was then first lord of imiralty, was appointed (in conjunction Dr. Solander) naturalist to the expedition the command of Captain Cook, which from England, August, 1768, to visit Ota-or the purpose of observing the transit of met Venus over the disk of the sun. In byage, which lasted 3 years, he visited lel Fuego and Otaheite, as well as New d and New South Wales. He was warmly d on his return, had a long audience with III., and prepared to go on a second , but was so thwarted by one of the navy that he abandoned the idea. In 1772, le a voyage to Iceland, with Dr. Solander, the Hebrides on his return, and discov-the columnar stratification of the rocks the columnar stratineation of the rocks ading the caves of Staffa. On the retiref Sir John Pringle from the presidency royal society, in 1777, Mr. Banks was his successor,—a position which his adge of science, personal intimacy with tial persons, and ample means, enabled hold advantageously for the public. In e married, and was created a baronet in Seven after on the guiden death of Dr. Soon after, on the sudden death of er, he abandoned his purpose of publish-results of his observations and discoverotany. In 1784, an attempt to remove m the royal society, on the pretext that rped too much power, was unsuccessful. this, he recovered his popularity. In

1795 he received the order of the Bath, in 1797 he was made a privy councillor, in 1802 he was chosen a member of the national institute of France. In his latter years, Sir Joseph was a martyr to the gout. He was in his 78th year when he died. It has been much regretted that, except in brief memoirs or occasional communications to the transactions of societies, he made public no account of his large collections of matural history. He published a small work on "Blight, Mildew, or Rust in Corn," and another on "Merino Sheep." He dispensed his large fortune with noble liberality, silently relieving

the distresses of many a man of science.

the distresses of many a man of science.

BANKS, NATHANIEL PRENTISS, governor of Massachusetts, and late speaker of the U. S. house of representatives, born in Waltham, Mass., Jan. 30, 1816. With no other opportunities of early education than the common schools of New England, he was placed, as soon as he could be of service, at work in a cotton for the property in his native village, by his father who as no count to of service, at work in a count of factory, in his native village, by his father, who was the overseer, and afterward learned the machinist's trade. Literary aspirations came upon him in connection with the representations of a dramatic company formed among his associ-ates, with whom he played the principal parts with such promise as to have had inducements offered him to adopt an actor's career by profession. Choosing, however, another stage, he lectured before political meetings, lyceums, and temperance societies, and afterward became editor of the village paper of his native place. Entering thus upon the field of politics, he received an office under the Polk administration in the Boston customhouse, and was in request in the democratic party as a speaker at their political meetings. He was elected to the house of representatives of Massachusetts for 1849, and is entered on the roll of members as a "machinist." roll of members as a "machinist." The next year he appears as a lawyer. In 1851, he was chosen speaker of the house as one of the prom-inent advocates of the "coalition" between the democrats and the freesoilers, by which the ancient rule of the whigs was overthrown in Massachusetts. He was again elected the following year by the same coalescing vote, and also representative to the ensuing congress. the summer of 1853, he was president of the convention called to revise the constitution of the state. During his first term, having withdrawn from his adhesion to the democratic party, and voting against the passage of the Kansas Nebraska bill, although he voted for taking it up, he was reelected to congress in 1854, with the support of both the "know nothor American and republican parties, and at its meeting in December, in consequence of his high reputation as a presiding officer, adopted as the candidate of the latter for the speakership, and elected by a plurality vote after a contest of more than two months, and over a hundred ballots for a majority as required by the standing rules of the house. But at the close of this congress a handsome vote of thanks

BANNER

neret being the last of the feudal dignitaries, who had the right of displaying his own square

banner, and mustering his own men under

the academy of sciences at ly wrote Banneker a very comr. He was employed by Ellit Washington city. A book of ons is preserved in the Maryland at Releimore which essentials. y at Baltimore, which associted two sketches of his life. military ensign, generally used with flag or standard. The banic ages were square pieces of , suspended from a cross or like the yard of a vessel, supand usually surmounted by an ras the object of adoration to 1ch was the early ensign or bansquare of crimson cloth, bearing P. Q. R. senatus populusque ounted by an eagle for the lesen hand for the manipules or en hand for the manipules, or th was the Christian ensign, the of Constantine, a cross of gold we a splendid banner, bearing In hoc signo vinces. "In this sign quer." We learn from Xeno-n of Cyrus, that the banner of rsia displayed a golden eagle, s, we have recorded the devices Israel, but it does not appear vention of heraldry any absolute as to the bearings or the colors, ns, crowned heads, or families, the middle ages was of a dif-ure, and significance. It, likein shape; but instead of being itally on a transverse bar, was dicularly to the staff. As else-military ensign, and was used point of the company of men ler it. But it could only be on of a certain rank, who, in dicularly to the staff. As olseht of displaying his square banthe ordinary swallow-tailed or nnons or pennoncelles of knighti a banneret. The bearer of a one who brought into the field f men-that number being unled them to be commanded by For this reason, when the ng his banner was assigned, 88 ard of valor, to any poor knight, or revenues was added to supanner was charged with the is of the leader who carried it; clearly known of what great was composed, by their oppo-

, an English title of military inct. It must not be confoundbaronet, which is much more of that order having been cre-James I. in 1611. The banof that order having been cre-James I. in 1611. The ban-be the last among the greater, aong the secondary dignities of rits of the early kings, for their running to the earls, barons, knights of England; the ban-

banner, and mustering his own men under it.—
The banneret was originally a knight, created in the field by the king in person, under his own banner displayed, for the performance of some particularly distinguished service. Such were John de Copeland, created a banneret by Edward III. for taking David Bruce, king of Scotland, prisoner at the battle of Durham; and John Chandos, created banneret by the Black prince, and Don Pedro of Spain; and many others, whom it would be tedious to enumerate. whom it would be tedious to enumerate Sometimes, however, this rank was conferred for services, not military, as in the case of William de la Pole, a merchant of Hull, created a bandwidth a panet neret by Edward III. and endowed with a grant of 500 marks annual fee, issuing out of the port of Hull, in reward for moneys lent to the king for the supporting his foreign expeditions. This creation was by letters patent of the king; but the dignity conferred was inferior to that of the hanneret, dubbed on the field. On the continent when a person west to be created a hand of the hanneret, dubbed on the field. On the continent, when a person was to be created a banneret, he delivered his swallow-tailed pennoncelle, furled, to the king, who unfurled it, cut
off the swallow-tails with his own hand, and
returned it to him, a square banner, which
thenceforth he had a right to display. When
the new banneret was not a person of sufficient
landed estate to enable him to call out such a number of tenants as constituted the following of a banner, it was usual to give him a grant which should enable him to support the dignity. It has been held that, in France, every knight, who had such a following as would entitle him who had such a following as would entitle him to a separate command, was entitled to his banner, and was, ex ipoo facto, a banneret. In England, it has been supposed that few, if any, tenants of lower dignity than barons could bring enough men into the field to justify their claim to a banner. Sir John Chandos, however, named above, who was not a baron, at any time, but only an adventurous knight-banneret, had under him, when he marched into Navarre with the vanguard of the Black prince to the had under him, when he marched into Navarre with the vanguard of the Black prince, to the aid of Don Pedro—as we learn from Froissart, chap. ccxxxvii—"full 1,200 persons, all ornamented with his arms, which were a sharp pile gules on a field argent. It was a handsome sight to behold."—During the English civil wars, Captain John Smith, who rescued the king's hanner at Edgehill was created a hand wars, Captain John Smith, who rescued the king's banner at Edgehill, was created a banneret; and, so lately as 1797, when Admiral Duncan's fleet was at the Nore, King George III. created Captain Sir Henry Trollope, under whose flag he sailed to review the fleet, a banneret. He is believed to be the last banneret created in England; as was the late Sir Robert Wilson, dubbed by the emperor of Austria for rescuing him by a desperate sally through the republican lines in Flanders, the last created on the continent of Europe.

BANNISTER, WILLIAM B., an American lawyer and merchant, born in Brookfield, Mass., Nov. 8, 1783, died July 1, 1853. He graduated

it, Flanders, Picardy, Gascony, Norman-l Guienne. He had, doubtless, a splendid rith many of the experienced captains ed warriors of his father—although the re attributed to his army by the Scottish ters, are exaggerated beyond the bounds ibility, when they speak of 150,000 footd almost as many horse, beside the superries of the army; it being notorious that ole population of England, at that day, carcely have furnished such a number of nen, out of all her males, capable of arms. It is not possible to ascertain was the actual force of Edward's but Lingard shows that the infantry by the sheriff's writs amounted only to men, of whom 14,500 were from the 12 n counties, and 7,040 from Wales; that ish levies seem not to have arrived in hat the clergy both of York and Canterfused their aid; that the earls of Lan-Surrey, Warwick, and Arundel, and ly others, neglected the royal summons; erefore, that in all likelihood, the feudal was less numerous than usual in royal ions of such magnitude and weight as tons of such magnitude and weight as it is not probable, then, at the utmost, idward's army could have exceeded or 80,000 men, all persons of all arms enditions included. The Scots, under amounted to about 30,000 men, all picking. Develop and Stoyant companying amounted to about 30,000 men, an pres-iers, Douglas and Stewart commanding itre, Edward Bruce the left, and Ran-the right wing, all infantry fighting on th long spears and axes, except a few d men-at-arms on the wings; those into Edward Bruce having an especial ssigned to them, which they did well, ich, in fact, decided the battle. In rewere the Argyleshire highlanders, and in of the Western isles, who, then, as ought bare-breasted, in those days of ad mail, with no armor to protect their hearts but the chequered tartans of ses hearts but the chequered tartans of sel; no weapons of offence but their claymores, which have turned the so many a desperate fight. At a e, ambushed in a valley, lay 15,000 amp-followers, wagon-drivers, and scouts med, who could not be trusted in ock of battle, but who were ordered to a demonstration of advancing at the a demonstration of advancing, at the f the battle, with a great show of wellbanners, belonging to houses and clans the field, and a loud blare of trumpets, convey the impression of a strong reinent, in fact a fresh army, coming to the In addition to all this, the low ground right of the Scottish centre, where the chivalry might be expected to make nal onset, was bored in all directions and ted by pitfalls, in quincunx, lined with stakes, and by long narrow trenches of set deep, covered with hurdles overlaid in the march of infantry, but insufficient

to support the weight of the iron charge of the barded horse. On the evening preceding the action, a sharp skirmish of cavalry occurred on the Scattish winks wing in which the on the Scottish right wing, in which Ran-dolph had nearly allowed himself to be outflanked and turned; when, Bruce sharply re-proving him, he charged with such vigor and determination as to defeat the attempt; aldetermination as to deteat the attempt; although at first his position appeared so desperate, that Douglas, who had asked, on his knees, permission to support his friend and been refused, disobeyed orders, and was rushing, as he supposed, to die with his brother-inarms, at the head of his own household only, when he met the man, whom he expected to find dead, returning in triumph, having re-trieved "the rose, which," in the words of Bruce, "had fallen from his chaplet." Another or the courage of the Scots; and tended, perhaps, to depress the spirits of the English, who could not but feel that the Edward who was now at their head, was not the invincible Long Shanks who had led them so often to glory, but never the defeat. to defeat. While Bruce, as his wont was, surveyed the enemy's front and ordered his own lines, mounted only on a road hackney, and armed only with a battle-axe, or mace-at-arms, a young English knight, Sir Henry de Bohun, of the blood of Herford, rode at him, in full of the blood of Herford, rode at him, in full career, with his lance in rest, and his war-horse at his full speed. The fate of the king seemed certain; but he swerved his horse from the shock, and clove the knight to the teeth, through headpiece, hood of mail, and skull, as he was borne ineffectually by him, thus winning the spolia opima, and gaining for the Scotch the omen, so much prized by that superstitious nation, of drawing the first blood, which was always held to bind victory to their banners. It is said that the English host spent the night It is said that the English host spent the night in wassail and revelry, while the Scots passed their hours of darkness in penitence and prayer; but the same thing has been written concerning every losing and every winning army, from the battle of Hastings downward. At daybreak, however, when the hosts were mustered, and opposed face to face, a striking incident occurred. The black abbot of Inchaffray, advancing barefooted, with a cross held on high, and the bared light to the Scattish, best who gave his benediction to the Scottish host, who at once veiled all their banners and sank on their knees to make their peace with God, be-fore doing their devoir before men. It is reported that Edward, seeing the strange move-ment of the Scottish army, imagined that they were suing his pardon; until assured by his best captains that it was to one far mightier than he they knelt, and that on that ground where they were kneeling they would conquer or die. As they rose to their feet, Gilbert de Clare flung his truncheon aloft, as a signal to the archery on the wings, especially on the English right, where they were drawn up in force; and, as usual, the cloud of the clothyard shafts went out, darkening the air like a snow

revent clandestine marriages or those which revarious reasons are unlawful, as also the flect of precipitancy. Another object is stated y Ignatius, in a letter to Polycarp, to be the residence of marriages by Christians with Jews, scretics, or apostates, for which purpose they rere instructed to confer with their bishops and priests, when contemplating marriage. In lagland, the banns are required to be published I weeks previous to the marriage, a modification of the old custom of oral proclamation, set the parties may dispense with this by propering a license from a person authorized to pant it. Neither publication nor license is resided when the parties are of the age of 21.

Assorband 8 weeks publication is necessary, and also in France, by the provisions of the Code Napoleon. In some of the states of the Assertican union, the custom has been abolished by statute, but in Maine, New Hampshire, Connecticut, New Jersey, Ohio, North Carolina and Tennessee, the publication is still enforced. In New York nothing of the kind is necessary, and the rule of the common law, by which the marriagable age of a boy is 14 years, and of a girl 12, is retained. A provision in the revised that the of 1830, fixing the age of consent at 17 for a boy, and 14 for a girl, was repealed a few months thereafter, leaving the law as it was before.

BANQUETS and BANQUET HALLS. bear their magnitude and magnificence, come which, the category of banquets. The feast of balabazzar, and that given by Ahasuerus and the queen, described in the book of Esther. Enquets were known among the Greeks as symposia, a name immortalized by Plato.

Lenophon, in his "Symposium," represents focrates as singularly pleased with the pantomes and other feats performed on such occames.

About the dinner had been finished liberations. lons. After the dinner had been finished, libations made, and a poan sung, they turned to drinking. Socrates, it was observed, was one drinking. Socrates, it was observed, was one of the few who could drink immoderately witht intoxication, which was considered one has most brilliant feats of philosophy. The incedonian banquets did not pass off so pleasantly. On one occasion Philip of Macedon assassinated during a banquet; at a later riod Alexander the Great stained his banquet with the blood of his friend Clitus. Baneting-rooms were common in the houses of the rich Romans during the luxurious days of the empire. Lucullus's banquet-room was called the Apollo, in which he gave magnificent en tertainments to Cicero and Pompey, and his other illustrious guests. Plutarch, usually so sober, speaks with great succulence of these extertainments. The emperor Claudius had a benqueting-room of rare splendor named Mersary. But Nero's banqueting house, called Domas Aureus, eclipsed all others in the pomp of its arrangements. During the repast flowers and perfumes were showered down on the guests from the ceilings, which, by their circu-

lar motions imitated the revolution of the heavens, representing the different seasons of the year, which changed at every service. With year, which changed at every service. With the barbarian Scandinavians, Celts, and Brit-ons, banquets were, according to their respec-tive annalists, used for murderous and treach-erous purposes. Over the banquet halls of the middle ages, the gallantry of the love-sick cava-lier the lovely presence of his inapporate and lier, the lovely presence of his inamorata, and the sweet sayings of the troubadours, spread a delightful halo of sentiment and romance. reader of Walter Scott's poems and novels will remember his splendid descriptions of the banquet halls of the feudal castles.—To this banquet halls of the feudal castles.—To this day banquet halls exist all over Europe, especially in the castles of some of the British, German, and Hungarian nobles. Every royal palace in Europe has its banquet hall.—In free-mason lodges, banquets play an important part. In France political banquets came into vogue since July 16, 1790, when the first of the kind was given at the park of the Château de la Muette, on which occasion deputations of the naette, on which occasion deputations of the national guard, from all parts of France, attended in great numbers. When the Girondins were about to be marched off to the guillotine, they held a banquet, during which they discussed with their wonted loftiness of spirit the complicated interests of humanity. During the revolution of 1830, banquets became perfect nuisances by their inordinate multiplicity. In 1847, fiery speeches in favor of reform were made at the opposition banquet of the Château Rouge. At the cabinet banquet of Lisieux, Guizot made speeches of equal cloquence against reform. But the agitation kept on increasing, until the memorable banquet with Odilon-Barrot as toast-master sounded the tocsin of the revolution of 1848. The banquet du Chalet, in the tion of 1848. The banquet du Chalet, in the Champs Elysées, acquired celebrity through Ledru-Rollin's brilliant discourse on that occar-Ledru-Rollin's brilliant discourse on that occa-sion.—In England and the United States, the freedom of holding public meetings and the habits of the people render such political ban-quets unnecessary. Still there are the diplo-matic dinners of the president, the ministers, and the speaker of the house of representatives or of the house of commons, which are solemn and important affairs. The corporation of the city of London often give sumptuous banquets the Guildhall to distinguished persons 1855 they gave such an entertainment to Louis Napoleon, which derived interest from the presence of the empress Eugenie. The opening of new and important railways is often celebrated by banquets; an imposing railway banquet was held at Montreal, in 1856, on occasion of the inauguration of the Grand Trunk railway.

BANQUETTE. I. In fortification, an ele-

BANQUETTE. I. In fortification, an elevation of earth behind a parapet, on which a line of troops may stand in order to fire over the parapet upon the advancing enemy. The height of the parapet above the banquette, is usually about 4 feet 6 inches. It is about 3 feet broad when double—that is, when constructed for a double line of troops—and 1½ foot for a

and a name tribunal.

AK PULO (Malay, many isles), a one considerable island, 20 miles long, in lets, on the W. coast of Sumatra, area 80 opulation, 2,500. The inhabitants are so opulation, 2,500. The inhabitants are race, called Maruwi, the same as habiting Simalu, and the neighboring oup. They speak a language bearing nblance to any spoken in Sumatra, or er known. They have been seldom by Europeans, and but little is recorded; their soil is poor, and they subsist by fishing, and the export of buffaloes oanuts. anuts. YAN, a Hindoo merchant, broker, or having dealings with foreigners. The by several authorities derived from the by several authorities derived from the toanij or banik, signifying a trader or and applied to the whole shopkeeping hity of Hindostan. Others again, tracing the same origin, apply the word to that cular class of Hindoo traders who, department the ancient custom of their people, their commercial operations into strange tries. These give the name banyan to Hindoos whom Marco Polo found among foreign merchants at the fair of Tabriz and port of Aden; to those traders from Indiathe, in the middle ages, were found on the latern coast of Africa; to those banyans, so alled, who at different periods have formed madderable and influential mercantile communications. tice in the principal trading towns of Arabia Persia; and to those enterprising merhants who, in later times, have carried on an atomive trade, by caravans from Bombay, larget, and Cambay, with the interior of Asia, were venturing so far as the frontier of Russia and China. It is said that the Portuguese were driven from Muscat by the treachery of a ban-yan, who instigated the uprising in resentment ar an affront offered to his family. Again, by number of writers the banyans are described a distinct caste, "believing in the metempyehosis, and abstaining from the use of flesh-ment, or of any food that has once had life;" whereas, they do not at this day constitute a sparate caste, nor are they so considered in Hindoo code, or by the Braminical priestheod. Several travellers (among whom are Tevernier and Ludolph) use the term banyan synonymous with Vaishya, the name of the name great caste of merchants and agricultursts; but for this there is no oriental authority. Tavernier and Ludolph, supposing them to be a caste of vegetarians, have gone so far as to de-fine the word banyan as "one innocent and without malice;" and Dr. Noah Webster, in

adopted a prevailing error of shipmasters and sailors in the East India trade, who, when the almost wholly restricted to a particular class of merchants and brokers, naturally ascribed to the banyans, as a caste or sect, those religious and social customs to which they hold in common with all worshippers of Brama and Vishnu, the creator and the preserver. The and social same explanation suffices for the various errors of travellers. In Bengal, the banyan derives his title from baniya, Hindostanee, a banker, and claims, accordingly, the superior status of a financier, capitalist, and speculator or broker in foreign commerce; no manages matters of the European merchant, and serves matters of interpreter. In fact, the him in the capacity of interpreter. In fact, the same man is styled in Madras, a dobash, corrupted from dwi bashi, "2 languages," and signifying any one who can speak 2 languages. Thus, the banyan proper will explain to you that the benyan proper proper sets but a mixed that the banyans are not a caste, but a mixed craft; and, with the Hindoo's partiality for common origins, will assure you that they are sprung from a father of the medical and a mother of the commercial class, not caste. This notion takes practical form in the fact that many of the banyans are practising physicians. Some banyans ostentatiously usurp the title of dewan, which implies an imposing order of delegated power; under the emperors of Hindostan, and even within very late years, at Lucknow and Delhi, the dewan's was a confidential office, filled only by persons in high favor, who enjoyed peculiar access to the monarch. The banyans are invariably Hindoos, possessing, almost without exception, large estates, and extensive credit and influence. So generally is this the case, that it is but a few years since every description of government. few years since every description of government contracts was under the control of 20 or 30 ban-yans. If a government job was to be undertaken by any one not in the company's service, the banyans became his securities, on condition of receiving a percentage, and appointing their friends and dependents to such duties as might control the principal, and guard themselves against loss. If, on the other hand, a "com-pany's servant," civil or military, was desirous of deriving benefit from some contract in the disposal of which he had a vote, and which, consequently, he could not obtain in his own name—then the banyan became the principal, and his foreign friend either received a share, or derived advantage from loans, which answered his purpose equally well. Frequently swered his purpose equally well. Frequently the same person was banyan to several European houses, whose affairs, thus become unreservedly known to him, were discussed with more or less vivacity at those meetings, which the banyans of Calcutta formerly held when the active business of the day was over. The English and American branch houses in the 3 presidencies and especially at Calcutta are established. presidencies, and especially at Calcutta, are estab-lished by junior partners or confidential clerks, deputed for the purpose by their principals in

defining banyan-days, in seamen's language, as days in a week in which sailors have no fleshmest served out to them, says: "The use

of the term seems to be borrowed from the banyans in Asia, who, believing in a metemperchosis, will eat no flesh, nor even kill noxious animals." In this the lexicographer has

was abolished in 1802, it became the summer residence of several Bavarian princes. The last abbot, Gallus Dennerlein, an enthusiastic student of natural history, was transferred to the museum of Bamberg, where he exhibited the valuable collections made by him until within

BANZARDAH, a strongly fortified mountain stress in the Persian province Irak-Ajemee.
To this pass, the last of the Sassanides fied after the battles of Cadesia and Nehavend in 641, which put an end to that dynasty, and made Persia the conquest of Arabia.

BAOBAB, a tropical tree of enormous size found in Africa, and especially in Scnegal, though the expedition of Mohammed Ali dissovered it on the banks of the White Nile, md Livingstone found it flourishing in the vi cinity of the southern tropic. The baobab was first discovered in 1748, by the renown-ed traveller, Adanson, in his voyage to Sen-eral, and it has been raised in England from The botanical name given to this tree is Adansonia digitata, the first appellation in henor of its discoverer, and the second descrip-tive of its five-parted leaf. It belongs in the ural order bombacea. Its appearance is pematural order bombacea. Its appearance is pe-caliar. It has an immense trunk, measuring from 15 to 60 feet in height, and from 70 to 75 feet in circumference, and from its enor-mous size giving one the idea of a mass of granite. Its lower branches grow hori-montally to the length of 60 feet frequently, and hang to the very ground, thus concealing the trunk, and looking like a mound of verdure, or a green hillock. The leaves are large and abundant, and of a dark green color, and are divided into five radiating lanceolate leaflets, and used by the natives as an anti-sudorific; the sad used by the natives as an anti-sudorific; the Rower is large, white, with stamens gathered in a sabe below, but spreading like an umbrella above, surmounted by a long, slender, and recurved style, terminated by a long, slender, and recurved style, terminated by a rayed stigma, petals reflexed and calyx decidnous; its fruit is a soft pulpy but dry substance, about the size of a quart bottle, enclosed in a long dull green woody pod; the pulp between the seeds tastes like aream of tartar, and is used by the natives to give a flavor to their porridge, and is much asteemed as an antifebrile. The baobab is also salled mankey bread sour gourd and lale plant. sateemed as an antifebrile. The baobab is also salled monkey bread, sour gourd, and lalo plant. The natives make a strong cord from the fibres sontained in its pounded bark. To this end they aften wholly strip the trunk of its bark, which in the case of almost any other tree would cause its death, but such is the wonderful vitality of the baobab that it has no other effect upon it than to make it throw out a new bark. No external injury. not even fire, can destroy it external injury, not even fire, can destroy it from without, nor can it be injured from within, as it is quite common to find it hollow. Even entting down does not exterminate it, for it continues to grow in length while lying on the ground, and its roots, which reach 40 or 50 yards from the trunk, retain their vitality. Livingstone judged that one of the baobab trees which

he examined, was at least 1,400 years old. It is subject to a very remarkable disease, a softening of its woody structure, until it falls by its own weight a mass of ruins. The natives use the trunk hollowed out as a place of depo-sit for executed criminals whom the law denies the rights of burial. In this position the bodies soon wither and dry up, having much the appearance of mummies.

BAOUR-LORMIAN, PIERRE MARIE FRANÇOIS
LOUIS, a French poet, born in Toulouse, March
24, 1770, died in Paris, in 1856. He gained the
favor of Napoleon I. by an imitation of Macpherson's fragments, wrote some unsuccessful tragedies, and miscellaneous poems, became, in 1815, a member of the French academy, and undertook a translation of Tasso's "Jerusalem Delivered," which has been forgotten.

BAPHOMET, or BAFFOMET, a symbol of the knight-templars, said by their enemies to have been a bust of the devil, who was worshipped by them with mysterious rites. Others esteemed by them with mysterious rites. Others esteemed it a bust of Mohammed, and thought that the order had apostatized from Christianity and adopted Islamism. Still others believed it to be the Gnostic divinity, Mete or Wisdom. Some of these curious symbols were found in 1818 in the imperial museum of Vienna. They are of stone, and represent a female figure with 2 heads or faces, and on which are inscribed a serpent, a truncated cross, or Egyptian key of life and death, the sun and moon, a chess-board, a candlestick with 7 branches, and numerous Arabic inscriptions.—The word baphomet is also used to denote a baptism by fire, or Gnostic baptism. baptisın.

BAPTISM (Gr. βαπτισμα, from βαπτιζω, to baptize, from βαπτω, to wash, or dip), the application of water to a person as a sacrament or religious ceremony, usually performed by immer-sion or sprinkling. Although lustrations were prevalent as religious rites among the Indians, Egyptians, Greeks, and Romans, and particular-ly among the Essenian sect of the Jews, yet the existence of baptism as a ceremonial for the admission of proselytes, or as giving validity to such admission, has not been historically traced ear-lier than the Christian era. What had been among the Jews, probably, only a purifying cere-mony, was made by John and Christ a rite of in-itiation into the Christian church. Though baptism, as the symbol of an inward change, conferred at first only upon converts to the Christian faith, according to the prevailing modern opinion of Biblical critics, yet at an early period the practice was introduced of baptizing infants, the church requiring security, through certain sponsors, that the children should be brought up to lead a godly and Christian life. The form of to lead a godly and Christian life. buptism at first was, according to most historians, by immersion; but as Christianity advanced into colder climates, the more convenient mode of spiritling and interest and an according to most historians. of sprinkling was introduced. The significance of baptism in the Protestant church, excepting, perhaps, a branch of the Anglican church, is as a symbol of the new birth, an outward sign

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they acknowledge no master but Christ; of faith but his word; no baptism but hich is preceded and hallowed by per-siety; no church but that which is the of Christ, pervaded, governed, and ani-by his spirit. Whatever diversities of and usage are found among them, these i and usage are found among them, these ir common and characteristic principles; to they are known and distinguished in country, and in every age. On like a, also, the Baptists reject (though with concern) the substitution of sprinkling entire immersion of the body, which, aintain, was originally practised in the stration of baptism, and (except in the the sick) universally observed throughthe sick) universally observed through-ristendom for 1,800 years. For the uni-bligation of immersion as identical with 1 itself, and essential to its specific spirirposes, they urge the admitted significathe word $\beta a\pi\tau i \zeta \omega$, the necessity of adto the ordinary meaning of words in the etation of laws, the places where the rite iginally performed, the phraseology em-in describing it, the undeniable example at himself, and the metaphorical allusions scred writers when explaining the spirnport of the rite; all which, they say, the meaning to be immersion, and rily exclude every other. They mainst no valid objections have ever been t against the combined force of this eviand that, so far as the meaning of the s concerned, they have the concurrence whole body of the Reformers of the 16th 7, who were withheld from restoring imnamong Protestants generally, not by critasons, but by their views of church auand expediency. The Mennonites, or Baptists, restored immersion; but a part n, though still rejecting infant baptism, nce adopted pouring, by confounding the ring of the Spirit with the baptism of irit—the cause with the effect; hence, who retain immersion are now called s, i. c. dippers. It is, however, well that all the Greek and oriental churches a population of 100,000,000), though ig the baptism of children, retain immerig the baptism of children, retain immer-this day, as essential to the validity of e, and, as Bunsen remarks, "deny that is any efficacy in the western form of a." The Baptists (with the small excep-entioned above) regard it as one part of ission to uphold, and, as far as possible, ore throughout Christendom, the original ion of Christ in its entire form and spirion of Christ in its entire form and spirthe subject of church communion the segmentally agree with other denominahat it is not proper before baptism. As ad no exception to this rule in the New sent, they do not feel authorized to invite who are not, in their view, duly baptized, e with them at the Lord's table, how-ighly they esteem them. They profess limitation of church communion that

they do not judge the consciences of others, but seek to preserve their own. Open communion, so eloquently advocated by Robert Hall in England, the Baptists of the United States regard as an anomaly. Yet, while holding these views, they claim to feel a cordial sympathy with other evangelical denominations, and rejoice to other evangelical denominations, and rejoice to cooperate with them, as far as possible, in the work of Christ.—As it regards church government, the Baptists believe in the spiritual unity of the whole believing church under Christ, its head, and in the duty of making this unity visible by subjection to him in all things (John xvii. 21). Local churches, like those of Jerusalem and Antioch, composed of converted members, duly baptized, embodied under the law of Christ by free mutual agreement, and maintain-Christ by free mutual agreement, and maintainto the New Testament, the appointed means, in the first place, for manifesting this unity. The government of these churches is congregational. Each body being immediately dependent on Christ, is, therefore, independent of all others, and is complete in itself for the management of its internal affairs, such as the choice of officers. and is complete in itself for the management of its internal affairs, such as the choice of officers, declaration of faith, reception, dismission, or discipline of members. Each church is a tribunal, where Christ himself presides, ratifying in heaven whatever is done according to his will on earth (Matt. xviii. 17-20). Baptists recognize no higher ecclesiastical tribunal on earth as constituted by Christ. This principle of independence is however, quite distinct, in their view, from selfish isolation. It is balanced by snother principle equally dear to them—that of another principle equally dear to them—that of intercommunion, or the communion of churches. This intercommunion is the highest form of visible unity, and is never to be interrupted without necessity. On this principle their churches associate, invite councils for advice, and organize societies for mutual cooperation in any benevolent, educational, or missionary en-terprise. But all such associations among Bap-tists disclaim the slightest jurisdiction over the churches, and any attempt to usurp ecclesiastical power would be indignantly repelled.—Baptists make no distinction but that of office between clergymen and laymen. As each church is a lit-tle spiritual republic, so every member is entitled to a vote, and is trained to all the duties of an active citizen. The voice of the majority governs, but they seek, by fraternal discussion and prayer, mingled with love and forbearance, to secure perfect unanimity, according to the will of God. They recognize no higher church officer they perfect and decorate and d cers than pastors and deacons. Elders, as evangelists and missionaries, are also ordained, after due trial, and sent out to preach the gospel. Councils are usually called by the churches, to advise and assist in the ordination of ministers, the formation of churches, and the settlement the formation of churches, and the settlement of serious difficulties. Such councils are some-times called presbyteries, but they must not be confounded with the bodies that bear that name in the Presbyterian church, as they have neither iudicial nor appellate powers. Whatever be judicial nor appellate powers.

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provinces, the total is 13 theological 3 35 colleges, and 48 periodical organs of aptist denomination in North America. aptist denomination in North America. aptists of the United States also support merican and foreign Bible society, the can Baptist missionary union, the free n society, the southern Baptist board of 1 and domestic missions, the Baptist home n society, and, in part, the Bible union. missions are planted in Canada, Oregon, rnia, New Mexico, Hayti; in France, my, Denmark, Sweden, Norway; in n and central Africa; in southern India, Burmah, Siam, and China. The numconversions from their colportages and ns last year exceeded 4,000. Total numns last year exceeded 4,000. Total num-the mission churches, over 25,000. The the mission churches, over 25,000. The e of all the above societies in 1857 was 900.—In doctrine the Baptists of this y are Calvinistic, but with much free-and moderation. The New Hampshire y are Calvinistic, but with much free-and moderation. The New Hampshire stion of faith in 1833 is the most popular. relish highly the works of John Bunyan .ndrew Fuller, though some prefer the ar views of Dr. Gill. Their ministers the gospel freely, with a warm applica-the conscience and the heart. No de-stion is more observatorized by experi ation is more characterized by experi-l piety. The evidence of its possession is s required of candidates for baptism. the general body of Baptists there are, United States, 9 smaller bodies, distind by peculiarities indicated by their remaines. The Seventh-Day Baptists only in the observance of the Jewish Sabthe Free-will and the Anti-mission Bapre seceders from the general fellowship on at of Arminian and Antinomian tendenhough the former are zealous Christians to latter are gradually adopting different and returning to the general body. The al (or six principle) Baptists, the Tunkers, ennonites, are of foreign origin, and cling ir ancient usages. The Christian connecthe Campbellites (or Disciples), and the rennarians (or church of God), are new izations, drawn from various sources, h agreeing with the Baptists generally as subjects and mode of baptism. For the arities of each see the respective articles.

Baptists, as will be evident from the exposition of their principles, claim their from the ministry of Christ and his aposfrom the ministry of Christ and his apos-They further claim that all the Christian has of the first two centuries after Christ founded and built up on the principles profess; in proof of which they appeal to gh critical authorities in church history, im, Neander, Hagenbach, Jacobi, and n. They further claim to be able to their history in a succession of pure nes (cathari) essentially Baptist, though various names, from the 3d century down reformation. These churches, from the ntury onward, were the subjects of sys e persecution from the state churches,

both in the East and in the West. Cyril of Alexandria and Innocent I. of Rome, according to the historian Socrates, began this persecution by depriving them of their houses of worship, and driving them into secret places, under the laws of Honorius and Theodosius II., which laws of Honorius and Theodosius II., which forbid re-baptism (so called) under penalty of death. Yet their principles reappear among the Culdees of the West and the Paulians of the East; the Vallesii and the Paterines, the Albigenses and Waldenses, and emerge on all sides at the first dawn of the reformation. In whiston, "the Baptists are the only body of Christians that has not symbolized with the church of Rome."—Of the German Baptists of that era (with few exceptions) much might be said to vindicate them from the charges brought against them by their enemies, and to give deserved honor to their eminent men, their pious confessors, and numerous martyrs. Two folio served honor to their confessors, and numerous martyrs. Two folio volumes of materials for their history were col-Bancroft has summed up the matter in a few pregnant words: "With greater consistency than Luther they applied the doctrines of the reformation to the social positions of life, and threatened an end to priestcraft and kingcraft, spiritual domination, titles, and vassalage. They were trodden under foot with foul reproaches and most arrogant scorn, and their history is written in the blood of thousands of the German peasantry; but their principles, secure in their immortality, escaped with Roger Williams to Providence, and his colony is witness that naturally the natural secure is witnessed. ness that naturally the paths of the Baptists are ness that haturally the paths of the Baptists are paths of freedom, pleasantness, and peace." See ANABAPTIST.—In England, from the time of Henry VIII. to William III., a full century and a half, the Baptists struggled to gain their footing, and to secure, not only toleration for themselves, but for all, on the broad basis of liberty of conscience. From 1611 (as appears from the documents recently republished by the Hanserd Knollys society) they issued appeal after appeal, addressed to the king, the parliament, and the people, in behalf of this "soul liberty," written with a breadth of view and force of argument hardly since exceeded. Mr. Locke has truly said: "The Baptisa were from the beginning the friends of liberty; just and the beginning the friends of liberty; just and true liberty; equal and impartial liberty." Yet, until the Quakers arose, in 1660, the Baptists stood alone in its defence, amid universal opposition. In the time of Cromwell they first excited a fair hearing, and universal excited a fair hearing. position. In the time of Cromwell they first gained a fair hearing, and, under the lead of Milton and Vane, would have changed the whole system of the church and the state, but for the treason of Monk. In the time of Charles II. the prisons were filled with their confessors and martyrs, yet their principles gradually gained ground in the public mind and hastened the revolution of 1688. "The share which the Baptists took," says Dr. Williams, "in shoring up the fallen liberties of England, and in infing new vigor and liberality into the constituing new vigor and liberality into the constituin breadth from E. to W., and 400 from S., lying in the southern part of the provof Tobolsk, and including a part of Tomsk. Altai mountains enclose it on the south, he Irtish and Oby rivers on the N., W., and t abounds in swamps and salt lakes, the so of which become poisonous during the ser. The inhabitants are of Tartar origin, hiefly shepherds or fishermen. The steppe ins 7 market towns and 24 villages.

RABALLI, an Italian poet, born at Gaeta, lived during the latter half of the 15th

ins 7 market towns and 24 villages.
RABALLI, an Italian poet, born at Gaeta, lived during the latter half of the 15th ry. Although a mere rhymester, his vanity to great that he imagined himself the rival, the superior, of Petrarch, and was conly repeating his senseless verses, written to vilest Italian. To cure him of this intion Pope Leo X. invited him to recite his in public. After which the ceremony of the coronation took place, and the poet was a triumphal procession on the back of an ant, which finally threw him to the ground, the jeers of the bystanders. The unforeman seems never to have recovered from isoomfiture.

RABRA, or BERABERA, the name by in Egypt, the inhabitants of a small geoical district in upper Nubia are designated. are to be distinguished from the Berbers. name, although similar, does not appear we had the same derivation. The Berbers ed their name from the Arabians, while arabra appear to have had theirs from the tians. If, however, the word Berber is lural of Ber or Bar, a desert, then perhaps arabra may have received their title for une general reason as the Berbers, because thabitants of a desert. Their geographical on is in a desert tract lying on the right of the Nile, about 3 or 4 miles back from and south of the confluence of the th the Nile. This tract is a desert, iver, and south of with the Nile. vely considered to the fertile strip that lies sen the wretched huts and the river. Very priately, then, may they be called inhabiof the desert, which they appear to have d upon from sheer preference of aridity Their territory consists of enness. villages, the one-story houses of which uilt of sun-baked mud, in the form of a w square, and divided into such apartments endowed with such simple furniture as the wants of such a stage of civilization teirs. One window usually lights the scalled rooms, and the only article of fur-b which adorns them is a bedstead or sofa, of reeds and ox-hide, or a floor mat for ing, of the same materials. They use freely oxicating drink called bouza. The women it from highly leavened shoura, a kind of They trade with Egypt in cattle, which pasture in the mountains beyond the ra, near the Red sea. They, therefore, fre-ly visit Egypt, though their own villages, so near the Nile, are the principal marts ade for the whole Sennaar country. Their morals are spoken of quite depreciatingly by travellers. They are physically strong and handsome. They are dependent on Egypt.

handsome. They are dependent on Egypt.
BARACOA, a seaport of the island of Cuba,
with an extensive export trade. In the vicinity
is a remarkable table mountain called the Anvil
of Baracoa; pop. 2,000.
BARADA, the country from Jerusalem to

Antioch, is one extensive water-shed, stretching from N. to S. nearly parallel to the western shore of the Mediterranean, and at an average distance from it of about 60 miles, through an extensive for the Mediterranean, and at an average distance from it of about 60 miles, through and extent of five times that distance. extent of five times that distance. This is the great chain of Lebanon, or more specifically the two parallel ranges of Libanus and Anti-Libanus. About midway of this mountain chain the two ranges approach each other and unite in the highest peak of the entire stretch, Mt. Hermon. From this, the culmination of the great southern spur of the Taurus, 4 great rivers take their rise, which flow to what have been almost from the beginnings of human history 4 great and important kingdoms—the Jordan. a great and important kingdoms—the Jordan, which flows south to the Dead sea, and is the river of Palestine—the Orontes, which rushes northward to Antioch, and is the river of the Grecian kingdoms of Antioch and Seleucia—the Litany, or Leontes, which cuts its way through the rocky barriers of the Lebanon range to the Mediterranean, bisecting the kingdom of Phonicia—and the Barada, which tumbles from the high table-lands of the Anti-Libanus upon the plains of Mezzeh, and pursuing a south-easterly course empties first into the sea of Damascus, by that ancient city, and finally into the Bahr el Meri, some 12 miles to the east of Damascus, and is the river of Syria. This is the Abana of ancient times, in which Naaman the Syrian preferred to wash for his leprosy, when the prophet directed him to wash in the Jordan, as is ovident from the location, and also from the fact that that part of the Anti-Libanus from which the Barada takes its rise is still called Abana, or Amana. The Pharpar was probably the river now known as the Wady el Awadj, and which has its source in the more immediate highlands of Mt. Hermon, passes to the south of Damascus, and makes its fork with the Barada Damascus, and makes its fork with the Barada only about 1 mile from its mouth. The Barada is minutely described both by Stanley, of England, and Robinson, of this country, from personal observations. It rises on a high table-land of the Anti-Libanus, is a deep, broad, rushing mountain stream, with limpid water, and skirted with beautiful scenery. It is the course of fortility to Danascus, in the purposes source of fertility to Damascus, in the numerous canals which have been taken from it for pur oses of irrigation. Strabo describes it in his day as exhausted by these artificial drafts upon day as exhausted by these artificial drafts upon its current. It is the Bardines or Crysorrhoas of the ancient Greeks. The Barada winds through the sterile peaks of the Syrian ranges discoverable everywhere "by its mass of vegetation, willow, poplars, hawthorn, walnut, hanging over a rushing volume of crystal water, the more striking from the contrast of the naked

It is a halting station for the pilgrims

way to Gangootri.
RAILON, JEAN FRANÇOIS, a physician and ser of the national convention of France, at Vierzat, in Auvergne, Jan. 12, 1743, at Chambon, March 14, 1816. The early of his life was devoted to the practice profession, but in 1792 he became a depthe convention, and for 14 years succeeds was a busy participator in the various tive bodies which were formed within that

He was distinguished for his sincere love erty, and the boldness with which he de-ed measures and men, when he conceived t was for the benefit of the republic. He ot hesitate to accuse Robespierre, when at sight of his power, of arrogance and ill aled ambition. Retiring from public life 16, he devoted himself to the practice rofession and to archeological studies.

s written several treatises on professional itical subjects.

RAK, a river of Cachar, further India, ules long and in some places 200 yards

Its depth during the rainy season is from
40 feet. It follows a very tortuous
2, and after receiving the waters of the
14h and several smaller streams, unites with

ramapootra, 43 miles N. E. of Decca.
RALT, RAFAEL MARIA, a Spanish Amerrriter, born at Maracaibo at the beginning
s century. His chief work is a geographad historical account of Venezuela from tlement by the Spaniards to the year which is now said to be out of print. ins much valuable information. Baralt ins much valuable information. Baralt ecently one of the editors of the Clamor

control one of the editors of the Clamor on, published at Madrid.

RAM, a river and territory of the sultaning on the N. W. coast of Borneo.

aouth of the river is in lat. 4° 30′ N., long. 50′ E., and 50 miles S. W. of city of Brunai.

obstructed at the mouth by a bar, which is the mouth which a bar, which sot permit vessels drawing more than 11 f water to pass; but inside, is navigable steam frigate for 100 miles. At several near the upper navigable portion of the n, large deposits of fossil coal and of iron, of excellent quality, have been found; and e mined and shipped very advantageously. oil of the territory seems well adapted for r culture; it is not heavily wooded, like reater portion of the island; but has exemplified prairies, covered with allung allung in which wild cattle, hogs, and deer id. The inhabitants of the territory are n Dayaks, the most energetic, and the advanced of the barbarous aborigines; otwithstanding their piratical and heading propensities, they have shown a very lly disposition to the few Europeans who visited them. oil of the territory seems well adapted for

visited them. RANCA NUEVA, a flourishing town of Granada, at the junction of the Mahates Granada, at the junction of the Mahates the Rio Magdalena. It is on the transit between Magdalena and Carthagena. BARANOFF, ALEXANDER ANDERAS VITH, governor of the Russian possessions in North America, was born in 1746, and died in 1819. Early in life he was engaged in commerce in western Siberia, but was induced to try his fortune on the American continent, where he established himself at Kodiak, and opened a trade with the natives. In 1796, he founded a colony for commercial purposes at Rebring colony for commercial purposes at Behring straits, and in 1799, after contending with numerous obstacles, took possession of the largest of the Sitka group of islands. His efforts finally gained him the support of the Russian Amerly gained him the support of the Russian American company and a title of nobility from the emperor Alexander. He next built a large factory at Sitka, and opened commercial relations with Canton, Manila, Boston, New York, California, and other places, and even established a small colony near what was then the Spanish mission of San Francisco, in Upper California, of which no traces remain at the present day. Worn out by a life of constant toil, no ent day. Worn out by a life of constant toil, no small part of which had been passed on the ocean, he at length applied to the government for leave to return home, but was only permitted to leave his colony in 1818. Touching at Batavia, he sank under the effects of the climate and

died at the age of 73.

BARANOVITCII, LAZARUS, a Russian theologian who died in 1693. He was a distinguished champion of the Greek church against the Polish Jesuits, and by his influence quelled a result among the Greek He was a distinguished. volt among the Cossacks. He wrote theologi-

volt among the Cossacks. He wrote theological treatises and poetry.

BARANTE, AMABLE GUILLAUME PROSPER
BRUGIÈRE, baron, a French historian, born at
Riom in Auvergne, June 10, 1782. His greatgrandfather and his father were in their time
scholars of some reputation. Under the supervision of the latter, young Prosper received a
thorough classical education, and was afterward admitted to the newly created polytechnic
school. Entering the public service in 1802. school. Entering the public service in 1802, he occupied, during the empire, several offices at home and diplomatic missons abroad. He was prefect of Lower Loire on the fall of Napomade his submission to the Bourbon king and kept his post, which he resigned when the emperor reappeared in March, 1815. His fidelity to his new master was rewarded by his being ap pointed a member of the council of state and general secretary of the home department. Soon afterward he became director of the Contributions indirectes. In 1819, he was made a peer of France, and his ambition seems to have been fully satisfied with that honor. Most of his time was now given to literary pursuits, which he had never neglected. As early as 1808 he had published anonymously his Tableau ds la littérature française au 18 siéele, a very able sketch of the literary men of that philosophical century, which has since reached a very able sketch of the literary men of that philosophical century, which has since reached its 8th edition. He had been also a sort of amanuensis to Mme. de la Rochejaquelin, whose Mémoires on the war in the Vendée appeared in 1814; the greater part being undoubtBARB 605

sy," a charming and graceful production, a pleasing picture of the best features of in high life. His poems were published ols. in 1833.

RB, the African variety of that purest of the equine family, usually known as the or oriental horse; although it is an as-ned fact, that Arabia is one of the latest ries, in point of time, in which the horse lomesticated. The principal varieties of riental horse, which is the origin of the ib and Anglo-American thorough-bred and on the greater or less proportion of blood in the veins of any given horse, blood in the veins of any given horse, y given purpose, the heaviest draughtalone excepted, the excellence of the andepends, are the barb, the Arab, the and the Persian; and to the fact that descended not from one but from the descended, not from one, but from the lly mixed blood of all these varieties, is ibable that the modern thorough-bred is superior to all the different species of his nitors, that no one of them can contend nim in the race, either for speed or dis-and that, for many years, any further ture of their blood has injured rather ture of their blood has injured rather improved the quality of the progeny. The red horse is of great antiquity in Perarthia, Egypt, and Syria or Phænicia, as wn by the pages of classic history. To umidian barbs, on which their cavalry counted, did the Carthaginians owe their is a ever the Bourges; and the Moore tounted, did the Carthaginians owe their ies over the Romans; and the Moors successful invasion of Spain. By these twasive powers the horse of Spain, in gend of Andalusia, in particular, was large-ermixed with pure barb blood; so much t, in the early times of the racing turf f efforts to improve the quality of the ean horse, it was to the Andalusian ard, which was then nearly a pure barb, recourse was had by the early breeders. oriental blood began to be sought for, ly, in England, and horses were imported ly, in England, and horses were imported the southern and eastern shores of the erranean, it was chiefly to Tangier and arbary coasts that the Stuart monarchs, vere the first systematic patrons of the horse in Europe, had recourse—partly, less, because the former city was then ied by English forces, but partly, also, so the barb was then preferred to the strain. The Percheron breed of the an horse is also largely impregnated with blood, introduced by means of Andalusian ns, purposely imported in order to im-and lighten the strain of the old Norman orse, at a very early period. William onqueror rode a Spanish war-horse at attle of Hastings; and the same breed intinually imported into England by the Norman kings, as were Syrian and Turkrses by the crusading Plantagenets. is generally somewhat larger than the of the desert, and has a loftier and more guished erest and forehand; and there is

one variety, the jet-black barb of Dongola, from the vicinity of Nubia and Abyssinia, which is said rarely to fall short of 16 hands in height. The marquis of Newcastle, who commanded the king's forces at Marston moor, and manded the king's forces at Marston moor, and was subsequently governor, or tutor, to Charles II., while prince of Wales, published the earliest work on horsemanship, which is of much note in England, in the year 1667. It is still a book of high authority. In it he says of the barb: "The barb is next to the Spanish horse than which the says of the barb is next to the Spanish horse than which the says of the say for wisdom, but not near so wise, and that makes him much easier to be drest.* Besido hakes him much easier to be drest. Bestude he is of a gentle nature, docile, nervous, and light. He is as fine a horse as can be, but somewhat slender and a little lady-like; and is so lazy and negligent in his walk, as he will stumble in a bowling green; he trots like a cover and callors low and no action in any of cow, and gallops low, and no action in any of those actions. But commonly he is sinewy and nervous, and hath a clean strength, is excellently winded, and good at length, to endure great travel; and very apt to learn and easy to be drest, being for the most part of a good disposition, excellent apprehension, judgment, and memory; and when he is searched and wakened, no horse in the world goes better in upon the ground in any." Again he says, in speaking of breeding racers, after giving directions, which are perfectly sound to this day, for the selection of mares: "Your stallion, by any means, must be a barb, and somewhat of the shape I have described the mares to be of. For a barb that is a jade, will get a better running horse than the best running horse in England; as Sir John Fenwick told me, who had more experience than any man in England; he had more rare running horses than all England beside, and the most part of all the famous running horses in England, that ran one against another, were of his breed." It is very questionable whether Newcastle's opinion is not wholly right, and whether the greater share of the best blood of the modern thorough-bred is not ascribable to the burb, as will appear by the following list of progenitors: The Godolphin, long called an Arabian, to whom more famous horses trace than to all other bloods, is ascertained to have been a barb, believed to be a present from the emperor of Morocco to Louis XIV., the Curwen bay was a barb; Chillaby was a barb; King William's no-tongued stallion was a barb; Hutton's Gray was a barb; Fenwick's horse was a barb; Hutton's Bay was a barb; Fairfaxe's Morocco horse was a barb; Rutland's Black was a barb; Massey's Black was a barb; the Taffolet was a barb; Harpur's horse was a barb; Grayhound was a barb; Dodsworth was a barb, both bred in England. But what is more to the point, is this—that of the importough-bred is not ascribable to the barb, as will more to the point, is this—that of the import-

^{*}Dressed, in the English of those times, signified broken, or trained to the manage, not as we use it, meaning cleaned by hand.

the N. E. which blows from 10 o'clock e morning till sunset. The cultivation also most every spot on the island prevents the most every spot on the Island prevents the alence of injurious miasmata. The staple actions are sugar, molasses, arrow-root, and cotton; and the amount of property ally created is estimated at more than 100,000. About 40,000 acres are planted with the sugar-cane. In 1852 the amount gar produced was 48,785 hogsheads, valued 1,329,000. In exchange for the native proons there are imported into the island 1 fish salted beef flour, cutlery, and cotton, I fish, salted beef, flour, cutlery, and cotton, len, and linen goods. Barbados has an llent harbor, in Carlisle bay, off Bridge, which serves not only for the trade of sland, but also as a landing-place for veswhich, in consequence of its easterly posireach it before any other of the islands, touch there for refreshment. The island but 4 towns, Bridgetown, Charlestown, St. 3, and Speights; the first of which is the al, and one of the gayest and handsomest and one of the strongest military posts 6 West Indies, containing above 20,000 in Barba, Barbados is more dependent popular. ants. Barbados is more densely popu-probably, than any other spot of land in world, excepting the island of Malta. It t present about 145,000 inhabitants, 85,000 hom are emancipated negroes, which gives persons to a square mile. Like the other India islands which were acquired by set ant, it is governed by a governor, a council, an elective assembly. The governor, who so governor-general of Grenada, St. Vin-Tobago, Trinidad, and St. Lucia, is invested the chief civil and military authority. The cil consists of 8 members, who are ap-ted by the crown, and have the same rank e colonies as the peerage in England. The ably is composed of the representatives of people, who are chosen annually, 2 for each e 11 parishes, and 2 for the city of Bridge-There are in the island 29 public schools, h are attended by 7,077 pupils. The chief is institutions of education is Codrington ge, founded by Gen. Codrington about the aning of the last century for the propagaof Christian knowledge, and beautifully
ted on the borders of the wild and hilly
ict called Scotland. It has an annual revoof \$16,500. Six newspapers are published the island, one of which, the "Barbados arry," has existed for over a century. There uch uncertainty about the first discovery larbados, but it was probably visited by Portuguese as early as 1536. It was visited by Fortuguese as early as 1536. n English ship early in the 17th century no permanent settlement was made till when a few adventurers from England when a few adventurers from Enganu-blished themselves upon it. During the d of the civil wars it afforded a refuge to ons of various parties, who successively red persecution. In 1692, and again in land in 1825, formidable organized insurions of the negroes took place on this island,

and the abolition of slavery in the West Indies by the British parliament in 1834 was received here with perfect tranquillity. Barbados has made rapid progress both in the last and the present century, and it is now, after Jamaica, the most valuable and important of the British islands in the Caribbean sea.

the most valuable and important of the British islands in the Caribbean sea.

BARBALHO-BEZERRA, Agostino, Brazilian traveller, born at St. Paul, died about 1669. In 1664 he was appointed general superintendent of the mines of Brazil, by an ordinance of Alfonso VI., and was specially directed to explore the vast forests of the interior, in quest of mines of precious stones. Here he wandered for years, always expecting to grasp the prize, and always disappointed, until he fell a victim to the malignant fevers of the country. His explorations have been of some use to the geographer and the naturalist.

geographer and the naturalist.

BARBANÇON, MARIE DE, a French heroine, who lived in the latter half of the 16th century. After the death of her husband, Jean de Barret, lord of Allier, she was besieged in his castle of Bernegon, in Berry, by Montare, the governor of Bourbonnais, and her heroic defence of the place during a siege of 15 days won her no little renown. She was finally compelled by hunger to surrender, but on her own terms, and the ransom exacted from her was remitted by the king, who restored her to her possessions.

BARBANEGRE, JOSEPH, baron, a French

BARBANEGRE, JOSEPH, baron, a French general, born at Pontacq in 1772, died at Paria, Nov. 9, 1830. In 1794 he entered the army as captain of the volunteers of his department, was wounded in his first campaign, and remained till after the 18th Brumaire without advancement. He then passed into the consular guard, and in the next year was appointed colonel and signalized his valor at the battle of Austerlitz. He was named brigadier-general in 1809, was engaged in the battles of Jena, Eylau, Ratisbon, and Wagram, and had a command in the rear-guard during the terrible retreat from Russia. Though wounded severely, he succeeded in shutting himself up with his corps in Stettin, and yielded up this place only after the abdication of Napoleon. In 1815, he was sent for the defence of Huningue, but the feetbleness of the garrison and the poor state of the fortifications, made resistance to a serious attack impracticable. Yet he inspired such enthusiasm in the invalid defenders, and presented so formidable a display, that, after the battle of Waterloo, he capitulated upon favorable terms, and marched out with all the honors of war. He passed the latter years of his life in retirement and quiet at Paris.

BARBARA, SAINT, a virgin and martyr, much honored in the Greek and Roman Catholic churches, and supposed to have flourished in the 3d or early part of the 4th century. Her history has been related by various chroniclers, but with so many discrepancies that it is difficult to ascertain either the events of her life or the circumstances of her martyrdom. According to Jacobus de Voragine, the author of the

et conquered Tunis and Tlemcen. His ca er was cut short by the Spanish marquis of conarez, governor of Oran, whom the heir of Themcen dominions had called in. He was ged, and made his escape from Tlemcen by subterranean passage, was overtaken and after brave and desperate resistance was slain in **518.**—He was succeeded in the government of Mgiers by his brother, KHAIR-ED-DEEN ("Good the Faith"), a name given him by the sultan clyman. On the death of Barbarossa, the Turks claimed him sovereign of Algiers. Seen was attacked by the Spaniards, but the spedition was destroyed by a storm, and those rho had landed were taken prisoners. Dreada renewal of the attack, Khair-ed-Deen bred homage to the sultan Solyman, who apcinted him pasha of the new territory, and thim a reinforcement of 2,000 janizaries, and in 1530, the new chief succeeded in taking • island in the bay of Algiers, when he put the garrison to death. In 1532, the people the garrison to death. In 1532, the people of Tunis rebelled against Muley Hassan, the old messactor of the brothers Barbarossa, and wited Khair-ed-Deen to take the command of heir territory, which he did. Solyman now spointed Khair-ed-Deen his capudan pasha to be a support of the command the Course Duris. acounter the Genoese Doria. A war of pirati-al attacks and desoluting ravages now com-menced with various success, but the emperor harles V. having landed on the coast of Africa harles V. having landed on the coast of Africa rith a powerful force. Tunis was attacked, and larbarossa compelled to escape to Algiers, rhence he put to sea, and ravaged the coast of lain. The Venetians now joined the confederaty against the Turks, and Andrea Doria and Chair-ed-Deen were on the point of coming to a engagement at the gulf of Arta, but jeal-maies among the allies prevented a battle, and lair retreating, the Turks captured several of the rearmost vessels. In 1542. Francis I. with rearmost vessels. In 1542, Francis I. with view of curbing the exorbitant powers of the superor Charles V., sent an embassy to Solyman, and his Christian Majesty having joined his brees with those of the Grand Turk, ravaged the tates of the church, and attacked Nice, which ras obliged to capitulate. Barbarossa's fleet daited Marseilles, where he was received with ray demonstration of honor and respect. Barbarossa returned to Constantinople in 1544, and died in 1546 md died in 1546.

BARBAROUX, CHARLES, a member of the french national convention, and a leading Givendist, born at Marseilles, March 6, 1767, guillestined at Bordeaux, June 25, 1794. Being riginally devoted to scientific pursuits, he maintained for some time a correspondence with Benjamin Franklin, and published an interesting paper on the extinct volcances in the ricinity of Toulon. As a lawyer, he had gained the reputation of being one of the most element members of the bar at Marseilles, when the revolution broke out. He at once declared times a republican, and was, in 1791, sent by the native city as deputy extraordinary to the lagislative assembly. He was admitted to the VOL, II.—39 BARBAROUX, CHARLES, a member of the legislative assembly. I VOL. II.—39

Jacobin club, where he became acquainted with Brissot-Warville, Vergniaud, and Gensonné, the most influential members of the society at that time. He joined them in their efforts for the triumph of republicanism, and was by one of them introduced to Roland, then home secretary, whom he frequently visited. Barbaroux was of uncommon personal beauty; he had beside that enthusiastic fire which is characteristic of his countrymen, and it was rumored at that time that he had fallen in love with the beautiful Madame Roland, who was, they said, but too yielding to his affections; this is undoubtedly a here colored to the said of t edly a base calumny, both being united only by the ties of friendship and devotion to freedom. Both were dreaming of a republic founded on virtue, and both were virtuous. When it was feared that the court would succeed in arresting the revolutionary movement in the north of France, Barbaroux was the most vehement in supporting the plan of establishing a separate republic in the south. He was at the same time actively engaged in all the popular measures tending to promote the revolution, and took, with his 500 countrymen, who were especially called Les Marseillais, an important part in the insurrection of August 10, which the death-blow of the French monarchy. reward for his energetic conduct, he was elected chairman of the electoral meeting, and afterward a deputy to the conduction. ward a deputy to the convention. expressed his abhorrence of the merciless and bloody policy of Marat and Robespierre, and energetically demanded an act of accusation against the promoters of the massacre of Sep-Henceforth he excited the anger of the Mountain party, which pursued him to his death. But his moral activity was not confined to purely political struggles; a learned economist, he threw light on controverted questions of general administration and commerce; he opposed the forced loan of 1,000,000,000 livres, voted against the tax on breadstuffs, and presented wise plans for the use of public money, the reg-ulation of supplies for the army, and the organization of the war administration. When the trial of King Louis XVI. came on, he voted for the king's death, but with an appeal to the na-tion. This last vote was followed by an outburst of indignation from his enemies, who presented petitions to the convention asking for his dismissal as a traitor to the republic. His fate, as well as that of his friends, the Girondists, was already sealed; a popular insurrec-tion broke out against the convention May 8, 1798, insisting upon their proscription, consequently, June 2, the assembly adopted the resolution for the arrest of 34 of its members, mostly Girondists. Barbaroux then left Paris with some of his colleagues, went to Normandy, and tried to raise an insurrection against the convention. It was then that, during a sojourn at Caen, he had occasion to meet Charlotte Corday, who manifested a deep interest in his misfor-tune, and he was even accused of having inspired the heroic girl with her murderous proPorte, the regency of Algeria. Thus we bring pown the history of this territory to its present political divisions, except there yet remains to be mentioned the small territory of Barca, marked on our present maps as in dispute between Exypt and Tripoli. The religion of the Barbary states is generally Islamism. The European mettlers are of course Christians, or Jews, while the blacks, who are slaves, are pagans. There means to be at present 6 races or tribes of men the blacks, who are slaves, are pagans. There has been to be at present 6 races or tribes of men is habiting the Barbary states: 1. The Moors.

2. The Arabs. 3. The Berbers, who are indigenous, and from whom the states probably received the appellation Barbary. 4. The Jews.

3. The Turks, who are the military of the country. 6. The Blacks. The Arabs call the Barbary states Moghreb (west). The language of the people inland differs from that of Arabia and Syria, though not so much as on the coast.

3. BARBASTRO, a district and town of Spain. The district is bounded on the north by the Pyrénées mountains, and touches Catalonia on the south-east, comprising the valleys of the

BARBASTRO, a district and town of Spain. The district is bounded on the north by the preferes mountains, and touches Catalonia on the south-east, comprising the valleys of the lines, Puectonas, and Solana. It is fertile and rell cultivated. The town is a walled town, within the district and on the Cinca, with a copulation of a little over 6,000. It has a cathellal and 3 convents, with various scientific intesting and some good old victures.

that and 3 convents, with various sciencians.

BARBAULD, Anna Lattita, an English suthoress, chiefly celebrated for what are called hildren's books, born in Leicestershire, June 10, 1743, died near London, March 9, 1825.

The Rev. John Aikin, her father, a Unitarian minister, carefully cultivated her talents in routh. At the age of 15, she removed with sim to Warrington, in Lancashire, where he pok charge of the celebrated academy, out of Thich grew the central Unitarian college, afterward transferred to York, and now established a Manchester. Here she became well acquainted with Dr. Priestley and Enfield. In 1773, at the age of 30, she published a volume of her posms, which the same year ran through 4 editions. This was followed by miscellaneous stees in prose, partly written by her brother. In 1774, she married the Rev. Rochemond Barbauld, with whom she kept a school, for the next 11 years, in the village of Palsgrave, suffolk. During this period, she published devotional pieces, compiled from the Psalms of David; early lessons for children from 2 to 3 rears old; and hymns in prose, for children. The 2 last formed an era in the art of instruction, and the early lessons were translated into French, by M. Pasquier. After a short visit to the continent, in 1785–'6, Mrs. Barbauld went to live at Hampstead, near London, where her rusband became pastor of a small congregation. Here she wrote several pamphlets and poems the popular subjects, such as the removal of the slave trade. In 1808, her husband died the Stoke Newington, whither he had removed 5 years before, and where she remained until

her death. Here she edited selections from the "Spectator," and similar standard works, with a preliminary essay, which is her best effort as a literary critic. She wrote the life of Richardson, the novelist, to accompany his correspondence, edited the "British Novelists," with memoirs and criticisms, and published a collection of prose and verse, under the name of the "Female Spectator." Her last separate publication was an able poem called "Eighteen hundred and Eleven," which appeared in 1812. Her works, collected in 2 volumes, were edited, with a memoir, by her niece, Miss Lucy Aikin. Her poetry is generally too didactic, but her prose is easy, graceful, and natural.

BARBAULT ROYER, P. F., a native of St. Domingo, and of African descent, lived in the latter half of the 18th century, and took part with his countrymen in their insurrection in 1792. He acted as the agent of the colony in preferring complaints against the colonial companies, but was unable to procure a hearing from the council of the 500. He was afterward employed in France in the editorial department of several journals, and in the bureau of foreign affairs under the directory. He is the author of various treatises on political questions and

BARBAZAN, ARNAULD GULHEM, sire de, an illustrious French soldier of the 15th century, died in 1432. He early acquired fame by his prowess; in 1404 he was the hero of a private encounter between 6 French and 6 English knights, which took place near the castle of Montendre, in Saintonge; the former being especially indebted to him for their victory. On this occasion, King Charles VI. rewarded him by the gift of a sword, inscribed with these words: Ut lapsu graviore ruant, and the surname of Chevalier sans reproche, which was also given to Bayard in the following century. Barbazan signalized himself by many heroic deeds during the wars which then desolated France. Having fallen into the hands of the English, who, for eight years, kept him a prisoner at Chateau Gaillard, he was, in 1430, liberated by his companion in arms Lahire, who stormed the place. He immediately reëntered the field with unabated ardor, defeated the English and the Burgundians at the battle of La Croisette, which greatly contributed to the ultimate deliverance of the country, and was bountifully remunerated by King Charles VII., who called him the "Restorer of the kingdom and crown of France." Soon after, being sent by the king to help young René d'Anjou to conquer the duchy of Lorraine, he was wounded at the battle of Bullegueville, which had been fought contrary to his advice, and died in consequence. Extraordinary honors were bestowed upon him, and like Du Guesclin, he was buried in the celebrated monastery of St. Denis.—Etienne, a French philologist, born in 1696 at St. Fargeau, near Auxerre, died Oct. 8, 1770, at Paris. He was one of the earlier laborers on the vernacular literature of the middle ages, and is chiefly known

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l hand, and modern travellers describe the and vivacious barber, with his lancet in and and his razor in the other, very much is represented in the stories of the "Ara-Nights." The Chinese also shave the r part of the head.

r part of the head.

RBER, FRANCIS, the faithful negro serand friend of Dr. Samuel Johnson, died.

3, 1801. He was born in Jamaica, probaout 1741, as he was supposed to be 9 years hen brought to Eugland, in 1750, by Col. rst, who sent him for some time to a ing-school in Yorkshire, kept by a clergy-

ing-school in Yorkshire, kept by a cace.

The colonel, whose property he then it was before the 12 judges of England leclared that slavery could not exist in Britain), by will bequeathed him his free-and, in 1752, the lad entered into Dr. service, in which he continued until on's death, with the exception of two ins; in one of which, upon some difference is master, he went and served an apothen Cheapside, but still visited Johnson; another, he took a fancy to go to sea ast escapade occurred in 1759, and through mollett's interference with John Wilkes, the lords of the admiralty procured his rege (in June, 1760), without any wish on ret of Barber. On returning, he resumed tuation with Dr. Johnson. Eight years he was placed at a boarding-school in at Johnson's expense, and Mrs. Williams of Johnson's miscellaneous household), ever Barber displeased the doctor, would dhim that on his education £300 had expended. Indeed, he was not treated well by Mrs. Williams, who was perpetuonplaining of his inattention, while he remonstrate against the authority she ed, and the severity she exercised. Noth-it strong personal attachment to Johnson have so long kept him in the house under reatment. It was owing to Barber's care he manuscript of Johnson's diary of his n Wales in 1774 was preserved. As I)r. n Wales in 1774 was preserved. As 1)r. on left no surviving relative, he resolved ke a liberal provision for Francis Barber, m," says Boswell, "he looked upon as ularly under his protection, and whom he l along treated truly as an humble friend."
about to make his will, a few days before ath, he asked Dr. Brocklesby what would proper annuity to a faithful servant? and answered that in the case of a nobleman year was considered an adequate reward any years' faithful services. "Then," year was considered an adequate reward lany years' faithful services. "Then," I ohnson, "I shall be nobilissimus, for I to leave Frank £70 a year, and I desire tell him so." The will, executed immey after, bequeathed all Johnson's property of £300) in trust for the use of Francis r. By a codicil, executed on the follow-ay, he bequeathed his house at Lichfield nbrances to different friends, and an an-of £70 a year to Barber, who was also

made residuary legatee. Barber's whole income from this generous bequest amounted to about £140, on which, at Johnson's recommendation, he retired to Lichfield, and passed the rest of his days in comfort. He died in the infirmary at Stafford, after undergoing a painful operation. Almost in his last moments, Dr. Johnson solemnly commended Francis Barber to the notice and care of Mr. Wyndham, placing Barber's hand in that of his new protector. Barber was one of the two persons present when Dr. Johnson breathed his last.

present when Dr. Johnson breathed his last.

BARBER, FRANCIS, a distinguished officer in the revolutionary army, born at Princeton, N. J., in 1751, died at Newburg, N. Y. April, 1788. He graduated at the college of New Jersey, in 1767, being but 16 years of age, and in 1769 was selected by a committee composed of such eminent men as the Rev. Dr. Thomas Bradbury Chandler, Rev. James Caldwell, Elias Boudinot, and John Chetwood, as rector of the academy at Elizabethtown, N. J. Under his care, the institution attained a national reputation, and among his pupils were many who afterward rose to high stations both in church and state. Among them was Alexander Hamilton, who was placed there by Gov. Livingston, himself was placed there by Gov. Livingston, himself an accomplished scholar and a keen observer, and whose selection of Mr. Barber as teacher for his protégé is good evidence of his eminent fitness for the task of instructing youth. He continued at the head of the academy until the commencement of the war, when the pupils were scattered, and the rector, with his two younger brothers, took up arms in their country's service. In Feb. 1776, he received from congress a commission as major of the 3d battalion of the New Jersey troops, and in November of the same year he was appointed, by the legislature, lieutenant-colonel of the 3d Jersey regiment. The appointment was confirmed by congress, and he was commissioned on Jan. 1, 1777, and when Baron Steuben was made inspector-general of the army, Col. Barber was designated as assistant inspector-general, in which capacity he rendered efficient service, and enjoyed the entire confidence of the veteran with his regiment, under Gen. Schuyler, in the northern army, and marched from Ticonderoga to join Gen. Washington, before the battle of Trenton, in which he participated, as, also, in that of Princeton, which immediately followed it, and in the important battles of Brandywine, Germantown, and Monmouth. In the latter action he was severely wounded, and was compelled to retire to his home at Elizabethtown, where, though disabled from service in the field, he was constantly engaged in obtaining intelligence of the enemy's movements, and other matters of importance to the patriot cause. Some of Gen. Washington's letters acknowledging the receipt of his communications, and expressing the same of the value of Col. and expressing his sense of the value of Col. Barber's services, are yet extant, and there is abundant evidence to prove that full confidence

color that it has been esteemed good for the standies, the same having been fancied also of so dock and ca ot; but the bitterness and divingency of the cark have made it valued as a medicine. The berries are so acid that birds sortese to eat them, but when prepared with sugar, they make delicious and healthful preserves, sirups, and comfits. It has been a very general opinion that barberry bushes cause hight to wheat sown in their vicinity, but if this be true it has not been accounted for. The Conedensis, or American barberry, is a shrub from 1 to 3 feet high, with leaves less sharply pointed, and racemes with fewer flowers than the preceding, and is found on the Alleghanies of Virginia and southward. The aquifolium, a mative of western North America, has shining evergreen pinnated leaves, and deep-violet or red berries, and is often cultivated for its beauty. There are several other Asiatic and American species which are among the most hardy orna-

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ents of gardens.

BARBES, ARMAND, a French republican. **pecially** known by his participation in several conspiracies, and the sentence of imprisonment and even of death pronounced upon him, was born in 1810 at Pointe-à-Pitre, Guadeloupe, and came to France, when a child, with his amily, who possessed an estate in the vicinity of Carcassonne. On the death of his father, he cf Carcassonne. On the death of his father, he inherited a handsome fortune, and was sent to Paris by his guardian to study law; but instead he launched at once into politics, or rather into conspiracies; for conspiracies were then in France the essence of politics. On the insurrection of April, 1834, he was arrested as a member of the Société des droits de l'homms; her the charges against him not heing substanbut the charges against him not being substantiated by evidence, he was released without a trial, after 5 months imprisonment, during which he had secured many warm friends and admirers among the poor people confined in the same prison. This was the beginning of his popularity. In 1835, being suspected of having had some previous knowledge of the attempted assassination of Louis Philippe by chi, he was again arrested, but discharged for want of evidence. The government, howwas bent on his condemnation; and a few months later he was sentenced to a year's imprisonment for secretly manufacturing gunpowder. When restored to liberty, he entered actively upon a new plot with Auguste Blanqui, Martin Bernard, and some other chiefs of La société des familles, and all their measures seemed so well concerted that they relied upon success. On May 12, 1839, 100 armed men, headed by Barbès, boldly sallied out at Paris, abouting Vice la republique! and marched republique! and marched le justice. They soon reached toward the Palais de justice. the military post attached to the Conciergerie. The soldiers, under Lieut. Drouineau, offered resistance, when their commander was killed by the discharge of a pistol, and the post taken. But alarm had been given at the prefecture of police; troops were promptly summoned; and

the insurgents, being unsupported by the people, tried in vain to construct barricades. Notwithstanding their courage, they were easily overpowered by superior forces; Barbès, who had been slightly wounded, was taken prisoner with some of his companions. A few weeks later, the high court, consisting of the chamber of peers, sentenced him to death. During his trial, as well as on hearing the sentence, he displayed unabated firmness; his youth and his courage excited sympathy in his favor; and Louis Philippe, yielding to the entreaties of his own son, the duke of Orleans, commuted to punishment to perpetual imprisonment. At the end of 9 years, the revolution of Feb., 1848, released the prisoner, who was at once elected colonel of the 12th legion of national guards at Paria, and representative to the constituent assembly by the department of Aude. Being dissatisfied with the very moderate course pursued by that body, he took part in the insurrection of May 15, headed by Huber, Raspail, and Blanqui. He went with them to the hotel de ville, where he was arrested during the evening, and taken to the dungeon of Vincennes. The high court at Bourges sentenced him to transportation; but as there was yet no penal colony, he was sent to Mont St. Michel, where he was confined for some years. During the Crimean war, a letter of his, praising the heroic deeds of the French army, found its way into the newspapers, and the imperial government, seizing on the opportunity, annestied the prisoner, who declined such a favor from a detested power; but, being thrown out of prison, he repaired to Paris, wrote a letter in which he freely expressed his sentiments, declaring that he would stay 2 days in Paris, in order to await the decision of the imperial police; but the government being disinclined to rearrest him, he left France, and is probably now living in Spain. Barbès, it may be said, is a conspirator by nature; all his life has been but a perpetual conspiracy; nevertheless, it must be confessed that generosity and a chivalrous b

BARBETTE. In a battery, guns are said to be placed en barbette when they stand high enough to fire over the crest of the parapet instead of, as usual, through embrasures. To raise the guns to this height, various means are adopted. In field fortifications, an earthwork platform behind the parapet forms the station for the gun. In a permanent fortification, the common high sliding carriage or the traversing platform raises the gun to the required level. Guns placed en barbette have not the same cover from the enemy's fire as those firing through embrasures; they are, therefore, disposed in this manner where the parapet cannot afford to be weakened by the cutting off embrasures, or where it is desirable to extend their range more to the right and left than would be possible with embrasures. On this account, guns are placed en barbette in field fortifications; in the salient angles of works; and in strand bat-

esilected under the title of Iambes, in a volume which was eagerly sought for. Meanwhile policical passions subsided, and our poet had to look for new themes; and in his poem called Relato, he bitterly lamented the destiny and degeneration of Italy; but this performance, although still admired, did not command the applause which had been lavished on the previous volume. Lazare, the subject of which is the miseries and sufferings of the popular classes in England, was yet more coldly received. He also tried to touch the old strings in his Satires nouvelles or Satires dramatiques, Pot de-Vin, Erostrate, Les rimes héroiques, but could not stir the public indifference. Still, in 1848, he published a skilful version of Shakespeare's Julius Cæsar, and in 1851, the Chansons and Odelettes, short love poems, but all in vain; his popularity could not be revived.

BARBIERI, GIOVANNI FRANCESCO, called GUEROINO, a distinguished Italian painter, born at Cento, in Ferrara, in 1590, died at Bologna, in 1666. An accident deprived him in infancy of the use of his right eye, whence he gained

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BARBIERI, GIOVANNI FRANCESCO, called Guerono, a distinguished Italian painter, born at Cento, in Ferrara, in 1590, died at Bologna, in 1666. An accident deprived him in infancy of the use of his right eye, whence he gained his name, Guercino, by which he is commonly known. While a boy he discovered a remarkable talent for painting, and according to common report, became a disciple of the Caracoi at Bologna, although, as his style does not resemble that of the Bologna school, it is probable that he never frequented it. Cremonini and Benedetti Gennari, 2 artists of little note, seem to have been his only masters, from whom he acquired chiefly the rudiments of the art, all his additional knowledge and perfection in it being the result of his own study. Writers have distinguished 3 different styles in Guercino's paintings, of the 1st of which few specimens are to be found, being the least known, while the 2d and 3d embrace the great bulk of his works. His earlier pictures show the influence of Caravaggio in their strongly contrasted lights and shades, and in the boldness and somewhat of the coarseness of that master; but by frequent visits to Rome, Bologna, and Venice, and intercourse with the most prominent artists of the schools of those cities, he gradually formed what is known as his 2d style, in which most of his pictures of any value are painted. Its characteristics are boldness and strength, mingled with much sweetness and harmony, and a wonderful art of relief, in which he recalled some of the celebrated illusions of the old masters. In this style are painted his "St. Petronilla," formerly in St. Peter's; the "Aurora," at the Villa Ludovisi; "St. Philip of Neri," at Rome; the "Resurrection," at Cento; "St. Elena," at Venice, and above all his magnificent frescoes on the dome of the cathedral at Piacenza, which for color, bold fore-shortening, and almost magical relief, are unsurpassed by works of their class. With all his efforts at correctness of design and di

their admirable coloring and skilful management of lights and shadows. His 3d style, a palpable imitation of Guido, whose fame was then at its height, is feeble and languid, and in striving to produce the sweetness, grace, and delicacy of color of this master, he lost his own characteristic vigor. Guercino was an exceedingly industrious painter, and among his works are enumerated 106 altar pieces, 144 large compositions, and an immense number of Madonnas, portraits, landscapes, &c., executed with great rapidity. He also left numerous excellent drawings. He had many disciples and imitators, and founded a school, which flourished for a number of years at Cento.

BARBITON, a stringed instrument of the Greeks, called by Theocritus πολυχορδος, or many stringed. The derivation of the word is not

BARBITON, a stringed instrument of the Greeks, called by Theocritus πολυχορδος, or many stringed. The derivation of the word is unknown. Its invention is variously ascribed to Terpander and Anacreon. In the time of Dionysius, it was disused by the Greeks, but retained by the Romans, who had it from them, in certain ancient sacrificial rites. Nothing is positively known, whether as to its form or the number of its strings; nor is there any recognized representation of it, as there is of the various kinds of lyres in ancient sculptures.

BARROH a family whose name is identified

BARBOU, a family whose name is identified with printing, and whose descendants regularly succeeded each other in that occupation. Dating from Jean Barbou, who printed at Lyons in 1539, they were prominent printers in the principal cities of Europe, until 1808.—Hugues, the son of Jean, established himself at Limoges, where he printed, in 1580, a beautiful edition of Cicero's epistles to Atticus.—In 1699, the widow of Claude, who carried on her husband's business at Paris, purchased of Fénélon's valet-dechambre, who had stolen it from his master, the MS. of Telemachus, and printed it as far as the 208th page, when all the copies printed were seized by the government for political reasons and destroyed, the MS., however, being preserved, was afterward sold to a bookseller at the Hague.—Jean Joerfel, lived in Paris in 1704, and was at the same time a printer and bookseller.—He was succeeded in 1746, by Joerfel Genard. In 1748, the abbé Lenglet Dufresnoy commenced the publication of a new and elegant edition of the classics to fill the place of that of the Elzevirs, then becoming rare. This project was continued by Joseph Gérard Barbon, who was succeeded by his nephew Hugh; and 77 volumes of the classics were printed in this form. The business remained in the hands of this family until 1808, having existed nearly 8 centuries.

BARBOU-DESCOURIERES, GABRIEL, a
French general, born in 1761, died at Paris, Feb.
8, 1816, took an active part in the expedition to
St. Domingo. Afterward, in the battle of Fleurus, he distinguished himself by his prominent
part in the capture of Valenciennes. At the
battle of Alkmaer, he secured the victory to the
French army, by ousting the Russians from
the village of Bergen, Oct. 1, 1798. He was

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begun to fail, and in about 3 years from that time, he died in his 67th year, much regretted by his large circle of friends, and the people of the state. II. John S., another distinguished by his large circle of friends, another distinguished member of the same family, was the son of Mordecai Barbour, an officer of the revolution, and born in the county of Culpepper, Aug. 8, 1790. He was a pupil of the once famous Ogilvie, a celebrated Scotch teacher, among the county of the count most distinguished men in Virginia, and other southern states. He was a student of the college of William and Mary, during the session of 1808—9. For the next 2 years he resided with his relative, Gov. Barbour, and studied law un-der his direction. During the war of 1812 he enlisted as a private soldier, but was soon made aidede-camp to Gen. Madison. He was about this time elected to the state legislature, in which body he continued a member, with some intermission, until 1823, serving during a large part of the time chairman of the important committee on courts of justice, and discharging its duties with such adelity as to obtain the extraordinary compliment of a vote of thanks. In 1828 he was elected to the U.S. house of representatives, where he remained until 1833, when he voluntarily retired. was a member of the state convention of 1829, and distinguished himself by his able and cloquent defence of the old system of freehold sufrage. Mr. Barbour's political opinions accord-ed generally with those of the states rights school of politicians. One of his best speeches, however, in congress, was delivered in defence of McDuffle's proposition to break up the system of voting for president by states, and establish a uniform system of voting by districts, giving a vote to each district. During this period of his public career, although associated with a crowd f distinguished speakers, Mr. Barbour enjoyed the reputation of an able and eloquent debater. After his retirement from congress he but seldom took an active part in political controversy. His last public appearance was in the democratic convention which nominated Gen. Pierce for the presidency. He died at his family residence in Culpopper, in 1855, beloved and lamented by a large circle of friends. III. Philip N., a nephew of James and of Philip Pendleton Barbour, born and the vicinity of Bardstown, Ky. in the year 1817, killed in the storming of Monterey, Sept. 28, 1846. In 1834 he graduated at West Point, and was soon after made a 2d lieutenant in the 3d infantry. Soon after he was made a 1st lieutenant, and became regimental adjutant, a post the maintained until 1845. For his bravery in the defence of Fort Waggoner in East Florida, he was made a brevet-captain, and for his services at Palo Alto and Resaca de la Palma he was made a major by brevet from the date of the bettles Mar 20th 1818. He was subsequent of the battles, May 9th, 1846. He was subsequently killed in action while leading his company at the storming of the breastworks of the city of Monterey. Major Barbour was a man of much talent and of great amenity of manners. He was reputed one of the most

energetic officers of the war with Mexico.

IV. PHILIP PENDLETON. an American inviet PHILIP PENDLETON, an American jurist, younger brother of James, usually known as Governor Barbour, from whom he is distinguished in common parlance as "judge," was born in Orange co., Va., May 25, 1783, died Feb. 24, 1841. He was educated at a school in his patiga county till his 16th year and in his native county, till his 16th year, and then, as he expresses it himself, "read some law" at home. In Oct. 1800, he was sent by his father to Kentucky, to attend to business con-nected with land-claims acquired before that state was separated from Virginia. Meeting with delay and difficulties, he was cast off by his father, and sought in vain to obtain the position of teacher in the Bardstown academy. Subsequently, he was admitted by the courts as a lawyer, in which profession his success was so remarkable that he was rapidly rising to an emiremarkable that he was rapidly rising to an eminent position. In 1801, however, he returned to Virginia, and, having borrowed the necessary funds, entered the college of William and Mary as a law student. Here he was the friend and associate of Chapman Johnson, Benjamin Watkins Leigh, and Robert Standard, who, in after life, were the pride and glory of the Virginia bar. In 1802 he returned to Orange county and resumed the practice of the law, and soon be-In 1802 he returned to Orange county and resumed the practice of the law, and soon became one of the most prominent criminal advocates in the commonwealth. His practice in the court of appeals of Virginia and in the supreme court of the United States was large and remunerative. In 1812 Mr. Barbour was elected to represent his county in the lower branch of the Virginia legislature, and served for 2 sessions in that body, being one of the acknowledged leaders of the party which sustained Mr. Madison in the war with England. In 1814 he was sent to congress, and served both 1814 he was sent to congress, and served both as chairman of the naval and judiciary committhe house. He was an opponent of the power of congress to undertake public improvements, and of the tariff, sustained the southern side of the Missouri question, and ably maintained those views as to the citizenship of free ne-groes which have since received the sanction of a majority of the judges of the supreme court in the Dred Scott case. When the university of Virginia went into operation, about the year 1825, he was offered the professorship of law and pressed by Mr. Jefferson to accept it. ear and pressed by Mr. Jefferson to accept it. He declined the position, however, and was appointed a judge of the general court of Virginia. In 1827 he resigned his seat on the bench, and was reflected to congress. In 1829, on the resignation of Mr. Monroe, he was called on to preside over the state conwas called on to preside over the state convention, which made a new constitution for Virginia, serving with Mr. Monroe, Mr. Madison, and Chief Justice Marshall. While making a speech in congress on the Marysville road bill he was seized with a hemorrhage which nearly cost him his life. Thus forced from public assemblies, he accepted the post of judge of the circuit court of the United

But when Cyrenaica became a dependency of the crown of Egypt, a new city called Ptolemais was built by one of that dynasty at the port of Barca, which, from that moment, gradually declined and went to ruin.

BARCA or BARCHA a public family of Cara-

BARCA, or BARCHA, a noble family of Car-thage, which produced, for many years in suc-cession, a series of the greatest men which that state, and indeed almost any state, ever produced. No other name of great men decorates the annals of Carthage, and it seems that almost all her greatness was due to that one wonderful family. Niebuhr has well remarkthat the greatness of Hannibal so far over-tops the greatness of Carthage, that in reading the history of the Punic wars, the city is mothing, the one man everything; while the greatness of Rome so immeasurably exceeds nothing, the one man every thing; while the greatness of Rome so immeasurably exceeds the greatness of any, or of all, of the greatest of her citizens, that in reading her history, it is the fortunes of the republic which fill the attention, while the deeds of her citizens are weighed only as they show them worthy or unworthy Romans. Had he substituted the word "Barcas" for that one "Hannibal," the saying would have been more just, if less pointed. The principal members of this family were Mago, Hamilcar, and Hasdrubal the elder, the conqueror of Sardinia; Hannibal, Hasdruthe conqueror of Sardinia; Hannibal, Hasdrubal, and Mago, the sons of Hamilcar; Hasdrubal, son of Hasdrubal the elder, conqueror of Sardinia, who himself conquered the Numidians; and Hasdrubal, son-in-law of Hamilcar,

ans; and Hasdrubal, son-in-law of Hamilear, the founder of Carthago Nova, in Spain. The last of the family, a Hasdrubal also, when Carthage fell, buried himself in the ruins of its last blasing temple.

BARCAROLLE (It. barcaruolo, a boatman), a term designating the melodies composed and sung by the Venetian gondoliers. The simplicity, beauty, and nationality of many of these songs, have made them great favorites with the Italians, and composers have frequently employed their form, and even borrowed their ideas, to illustrate some peculiar phase of national character. The barcarolle is phase of national character. The barcarolle is not exclusively a nautical air, but often reflects the feelings and daily life of the people, like the German Volkslied, or the Scotch or Irish balleds; and from the fact that the gondoliers have free access to the theatres of Venice, and are thus enabled to cultivate a taste for music, its construction is often marked by a grace and refinement scarcely to be expected in uneducated musicians. The associations of the place in which it originated, however, undoubtedly add much to the romantic charm with which it is invested. The familiar airs, La Biondina in Gondoletta, and O Pescator dell'Onde, are good

specimens of the barcarolle.

BARCELONA, a city and seaport of Spain, on the Mediterranean, capital of the province of Catalonia, situated in a fruitful plain, between the rivers Besos and Llobregat, at the foot of Montjoi (Mons Jovis), 315 miles E. N. E. of Madrid. It is the great manufacturing

and commercial emporium, and one of the finest cities in the peninsula. The N. W. part, which is called the new city, is pretty well built, the houses, mostly of brick, being generally from 4 to 5 stories high, with numerous windows and ornamented balconies. It contains some fine squares and promenades. The old city has narrower and more crooked streets, but is not deficient in beauty for the lovers of the picturesque. It is interspersed with remains of antiquity, among which a gate, some towers and walls, serve to trace distinctly the limits of the old Roman town. Among the public buildings, we may notice especially the palace of the audiencia, where the archives of the kingdom of Aragon are preserved; the city hall, the lonja, or exchange; the custom-house, and the theatre, one of the largest and handsomest in Spain. The cathedral is a noble structure, in the later Gothic style, with finely painted windows. We must also mention the church of St. Mary of the sea, that of St. Mi-chael, which is said to be an ancient temple of Neptune, and the 2 convents of mercy and St. Clara. Barcelona has some fine public walks; the principal is the rambla, which divides the new from the old city, and is always crowded, being only inferior to the boulevards of Paris. There is also a charming promoned of Paris. There is also a charming promenade round the ramparts, with delightful views, par-ticularly toward the sea. The fortifications are ticularly toward the sea. The fortifications are important; beside the walls, ditches, and batteries which surround the city, it is protected on the N.E. by a citadel, forming a regular octagon on the system of Vauban; on the sea-side by the fort of Sen Carles communicating side by the fort of San Carlos, communicating with the citadel by a double-covered way, and Montjoi, on the mountain of the fortress the forcess monton, on the mountain of that name, which commands the port as well as the town. This last stronghold, if properly garrisoned, is regarded as impregnable. The harbor is formed by an immense mole running to a considerable distance in a southern direction, having a light-house and a battery at its extremity. Unfortunately, it is not entirely finished; if it were, the port of Barcelona would be one of the largest, most commodious, and safest of the Mediterranean coast of Spain.— Barcelona is the residence of the captain-general of Catalonia, of the audiencia real of that province, and of a bishop. It has 4 public libraries, an ecclesiastical seminary, 8 colleges, a school for the deaf and dumb, a college of surgeons, an academy of practical medicine, an assecution for promoting art and science has association for promoting art and science, hospitals, a foundling institution, and other charities; but above all must be mentioned the junta de comercio, or board of trade, which supports with a princely liberality public professorships of navigation, architecture, painting, chemistry, experimental philosophy, agriculture, commerce, mechanics, and the foreign languages. With such resources at their displacement intercourse by trade with languages. With such resources at their dis-posal, and incessant intercourse by trade with other nations, the inhabitants are more en-lightened than those in the other parts of

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He afterward removed a year without success. He afterward removed to Paris on the death of his father, and the year 1606 found him again residing in London with his wife. From this period until 1615, Barclay continued in England, where he completed his "Satyricon," and published also several tracts and controversial works, among others one disputing the right of the pope to temporal power.

This was warmly attacked by Cardinal Bellarmin, and defended by Barclay with considerable energy in a ponderous Latin volume, published in 1618. Not having met with that success in England which he anticipated, Mr. Barclay removed to Paris in 1615, but remained there only a year, when he proceeded to Rome, having received an invitation from Pope Paul V. While there, he published a work addressed to secta-rians, evidently intended as an apology for his carlier heretical opinions. But fortune seemed still to frown upon him, and he does not appear to have met with any greater pecuniary success in Rome than had attended him elsewhere. There, however, he had ample time to pursue his various studies. In his leisure hours he de**voted** himself for amusement to the cultivation of tulips, which, commenced as a pastime, with him soon became a mania. But notwithstanding him soon became a mania. But notwithstanding the apparent lack of purpose and usefulness in his life at this period, it was at Rome that Barclay composed and produced his greatest work, Argenis, a Latin romance, and one whose popularity was not exceeded by any of its time. This work was greatly admired by Leibnitz, and by Cardinal Richelieu, who is said to have obtained from it many valuable political maxims; Cowper also mentions it in his letters in terms of praise; Joseph Scaliger has, however, criticized it with considerable severity. Whatever may be said of its merits, the Argenis has unmay be said of its merits, the Argenis has undoubtedly been more widely read than any other work of the period, having been translated into nearly every modern language, including the Polish, Swedish, and even the Icelandic, as a copy in MS. in that language is now in exnce, although it has never yet been published. Barclay was an indefatigable writer, and pro-duced many works, varying in merit; he ap-pears to have given his pen great license, and took it upon himself to combat fiercely any opinion which did not coincide with his own

opinion which did not coincide with his own convictions. He was a man possessing varied talents and great learning. His Argenis is perhaps the only work of its kind which has so long survived its author.

BARCLAY, John, M.D., a Scotch anatomist, born in Perthshire, 1760, died in Edinburgh, 1826. He studied divinity at the united college of St. Andrews, and was licensed as a preacher at Dunkeld. In 1789, he visited Edinburgh as tutor in the family of Sir James Campbell, where he commenced the study of anatomy. He acted as assistant to Mr. John Bell, and graduated in 1796, when he visited London and studied under Dr. Marshall. On his return to Edinburgh in 1797, he gave lectures on anatomy. He published several works on subjects

connected with the sciences of medicine and surgery; he also made some efforts toward reforming the system of nomenclature then in usamong anatomists. He bequeathed his valuable anatomical collection to the royal college of surgeons of Edinburgh, where it is known as the Barclayan museum.

the Barclayan museum,
BARCLAY, Robert, a distinguished member
of the society of Friends, born at Gordonstown, Scotland, 1648, died Oct. 13, 1690. He was eldest son of Col. David Barclay, of Ury, and received his education at the Scots' college in Paris, where he ceased to be a Calvinist, and became a Roman Catholic. At the age of 15, he returned to Scotland, where he found that his father had become a member of the society of Friends, a sect then recently established. At the age of 19, again changing his belief, he avowed himself a Quaker. Well read in the dead languages, and in the literature of England and France, he now applied himself to the study of the fathers of the church and ecclesiastical history. His natural abilities were great; his moral courage great also. His pen was devoted to the service of the Quakers, particularly to justify their doctrines to the public. He replied to various attacks on them, and his personal character gave force to his voluntary championcharacter gave force to his voluntary championship. In company with the famous William Penn and George Fox, he made a sort of religious tour in Holland and Germany, in 1677. After having written soveral pamphlets and treatises in vindication of his sect, he finally published his most elaborate work, on which his literary reputation mainly rests, entitled, "An Apology for the true Christian Divinity, as the same is held forth and practised by the people called, in scorn, Quakers." This was originally printed in Latin, but afterward translated into English by the author. As a defence of a peculiar system of theology, it was assailed by learned writers at home and abroad—particularly on its avowed declaration of the necessity larly on its avowed declaration of the necessity of an inward and immediate revelation. The only reply in vindication of this doctrine was written in Latin by Barclay (while a prisoner for conscience' sake in Aberdeen), on the sugfor conscience' sake in Aberdeen, on the sug-gestion of Adrian Paets, the Netherlands am-bassador. It was the author's closing literary labor. The effect of Barclay's writings was not merely to propagate the doctrines of the society of Friends, but to rectify public opinion con-cerning them, and to insure for them greater indulgences from the government. To this day, his "Treatise on Christian Discipline," is a standard authority on the government of his church. Robert Barclay was personally known church. Robert Barclay was personally known to Charles II., who treated him with marked respect, and, in 1679, presented him a charter for erecting his estate of Ury into a free barony, with civil and criminal jurisdiction for his heirs—a privilege enjoyed by the family until the legal extinction of such grants in the reign of George II. In 1682, the proprietors of the American province of East Jersey, among whom was his particular friend the earl of Perth, apservance of the Sabbath and circumcision, and

alling in the rear of the enemy. When forced a battle, as at Smolensk, he took a position thich prevented the battle from becoming dewhich prevented the battle from becoming de-diava. When, not far from Moscow, a decisive hattle was no longer to be avoided, he selected the strong position of Gzhatsk, hardly to be as-salled in the front, and to be turned only by very extended roundabout ways. He had already posted his army when Kutusoff arrived, in whose hands the intrigues of the Russian gene-rals and the murpure of the Muscovita army rale, and the murmurs of the Muscovite army against the foreigner heading the holy war, had placed the supreme command. Out of spite the lines of Gzhatsk, in consequence of which the lines of Gizhatsk, in consequence or which the Russian army had to accept battle in the unfavorable position of the Borodino. During that battle, Aug. 26, Barclay, commanding the right wing, was the only general who held his post, not retiring until the 27th, thus covering the retreat of the Russian army, which, but for him, would have been completely destroyed. After the retreat from the Borodina havond Moscow, it was Barclay de Tolly actived. After the retreat from the Borodine, beyond Moscow, it was Barclay de Tolly again who prevented any useless attempt at a defence of the holy city. During the campaign of 1813, Barclay took the fortress of Thorn, April 4, 1813, vanquished Lauriston at Konigstant agree the defeat of Bautzen April 4, 1813, vanquished Lauriston at Konigs-wartha, covered, after the defeat of Bautzen, May 8, the retreat of the allied army, won the bettle of Görlitz, contributed to Vandamme's capitulation, and distinguished himself in the bettle of Leipsic. During the campaign of 1814 he commanded no independent corps, and acted in an administrative and diplomatical, rather than in a military character. By the stern discipline he imposed upon the troops under his immediate control, he won the good opinions of the French people. On Napoleon's return from Elba, he arrived too late from Poland to assist at the battle of Waterloo, but

Poland to assist at the battle of Waterloo, but partook in the second invasion of France. He died on a journey to the bath of Carlsbad. The last years of his life were darkened by calamny. He was, beyond question, the best of Alexander's generals, unpretending, persevering, resolute, and full of common sense.

BAR-COKEBA, a famous Jew, who, during the reign of Hadrian, raised a violent insurrection among the Jews in A. D. 131, claiming to be the Messiah. His claim was supported by a distinguished Jewish rabbi, Akiba, and sustained by a popular tradition that on the day of the destruction of Jerusalem (the birthday of the destruction of Jerusalem (the birthday of Bar-Cokeba) the Messiah was born. Julius Severus, the commander of the Roman forces, being absent in the east, Bar-Cokeba seized the opportunity, raised a force of 200,000 Jews, and took possession of Jerusalem, and many fortified places and open towns, before the Roman army could be received to subjurget them. man army could be recalled to subjugate them.

The professed aim of Bar-Cokeba was to free the Jews from the Roman yoke, which, under Hadrian, owing to the mutinous disposition of the people, had been peculiarly severe. Hadrian had forbidden in his Jewish provinces the ob-

servance of the Sabbath and circumcison, and the reading of the law, and had entered into measures for establishing a regular colony of Greeks and Latins in the city of Jerusalem. Under these aggravations, the Jews were ripe for rebellion, and flocked to the standard of Bar-Cokeba with the same enthusiasm which 60 years before had characterized their fathers at the destruction of their city. Bar-Cokeba received the Roman money in circulation in recoined the Roman money in circulation in Palestine, stamping it with his own superscripreleasine, stamping it with his own superscription. From one of these superscriptions, his real name is conjectured to have been Simon. He claimed that the prophecy of Balaam, "there shall come a star out of Jacob," had reference to him, and therefore called himself Bar-Cokeba, or "the Son of the Star." He was finally subjugated and slain by Julius Severus, in the siege of Bether. The insurrection of Bar-Cokeba cost 880,000 lives, and leated shout 4 years utterly to deside the lasted about 4 years, utterly to desolate the hope of the Jewish nation for deliverance. Hadrian established a colony in Jerusalem, called it Ælia Capitolina, and made it capital for a Jew even to enter its precincts. Appealing to Jewish prejudice to second his determinations. Jewish prejudice to second his determinations, he placed the image of a sow over the Bethlehem gate of the city, and the Jewish Christians took refuge east of the Jordan, where they perpetuated themselves as a church, down to the

5th century. BARD (in Cymric, bardh, in Gaelic, bard), a professional poet, who made his livelihood by singing the amours and battles of gods, the deeds of heroes, the glory and genealogy of chiefs, and the victories of tribes over their enemies. The Roman poet Lucan mentions his name and functions in these lines (lib. i.):

Yos quoque, qui fortes animas belloque peremptas Landibus in longum vates dimittitis ævum, Plurima securi fudistis carmina Bardi;

well translated by Rowe,

You, too, ye Bards! whom sacred raptures fire To chaunt your heroes to your country's lyre; Who consecrate in your immortal strain Brave patriot souls in righteous battle slain.

Such a profession, by whatever name called, is an element in a certain stage of civilization, and is one of the first intellectual outgrowths of a people who have attained to some degrees above savagery. They were called Aoidoi, or rhapsodists, by the Greeks, Vates by the Latins, Scalls by the Scandinavians, Scopes by the Anglo-Saxons, Ollambs by the Irish, and Baydarze and Spiewakis by the Slavonians. In ancient Gaul, as Cæsar found it, the bards were a subdivision of the druids, or the priestly and learned order. The bard-druids, like every other branch of the order, were carefully instructed in their art by oral inculcation. Cæsar says that they spent 20 years in their education, which required the knowledge by rote of an immense number of verses, which they would not record in writing, but handed down by word of mouth from generation to generation. of a people who have attained to some degrees word of mouth from generation to generation. After the subjugation of Gaul to Roman arms, this patriotic and popular profession, with its

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sould be duly solemnized without the presence of the bards and minstrels. A great emulation crose among them, and prizes were bestowed on the most worthy. In 1176 the lord Rhys, prince of South Wales, made a great feast at Christmas en the occasion of finishing his new castle at Aberteifl, of which he proclaimed notice through all Britain, a year and a day before. Great was the resort of strangers, who were nobly entertained, so that none departed unsatisfied. Among deeds of arms and variety of spectacles, Rhys invited all the bards of Wales, and provided chairs for them, which were placed in his hall, where they at and disputed and sang to show their skill in their respective faculties; after which, he bestowed great rewards and rich gifts on the victors. The bards of North Wales won the prizes. on the occasion of finishing his new castle at Aber tors. The bards of North Wales won the prizes, but the minstrels of Rhys's household excelled in their faculty. On this occasion, the Braw-dror Llys, or judge of the court, an officer 5th in rank, declared aloud the victor, and received from the bard, for his fee, a mighty drinking-horn, made of the horn of an ox, a golden ring, and the cushion on which he sat in his chair of dignity." (Pennant's "Tour in Wales.")—After the conquest of Wales by Edward I. of England (1284), the bards suffered another terrible blow.

Their Welsh patriotism was formidable to Engthen dominion, and it became necessary to curb their utterances. A royal commission was issued, which presided over the eisteddfods, and acted the part of censors and inquisitors. No bardic the part of censors and inquisitors. No bardie poem was allowed to be circulated which appealed to the patriotic sentiments of the conquered race, and tended to rouse them against the con-querors. The story of the massacre of the Welsh bards and the destruction of their records, is a section, originating in Edward's stringent measures against the right of free song. The last eisteddfod held under royal commission was held in the reign of Elizabeth, queen of England and Wales, at Caerwys, in 1569. The copy of this commission is in possession of the Mostyn famly, together with a silver harp, which had from time immemorial been in the gift of the Mos-tyns to bestow on the chief of the faculty. The harp is 6 inches long, with 9 strings. In 1569, the victor of the silver harp was Simon ap Williams ap Sion. At this eisteddfod va-rious persons received degrees, some as chief bards of vocal song, others as primary, secondary, or probationary students; and many more as bards, students, and teachers of instrumental song upon the harp. Players upon the historic crott, with 3 strings, taborers, and pipers, were reckoned a low and ignoble class; they were not allowed to sit down, and had only a penny fee for their attendance and performances. degrees consisted of 4 in the poetical, and 5 in the mainteal faculty. Toward the end of the later century, some partiotic Welsh gentlemen determined to person the sixth of the later. mined to revive the eisteddfod. In 1770, the Gwyneddigion society was formed, in 1818, the Cambrian society, and about 30 years ago, the Cymmoridian, or metropolitan Cambrian institution, of which George IV. of England de-

clared himself the patron. Annual meetings have since been held for the recitation and reward of prize poems, and performances upon the harp; and reports of the modern eisteddfods find their way into the columns of the London "Times," and startle the prosaic Saxon reader with a momentary wonder at the outlandishness of the names, and the imaginative fervor of the sons of the principality. The above-named societies have been instrumental in preserving relics of the poems of Myrddyn ap Morfryn, Myrddyn Emrys, Taliesin, and other less celebrated composers of triads.—The Germans had no bards, so called, although an attempt has been made by reading barritus in the Germania of Tacitus, as barditus, to build up

BARD, John, an American physician, born near Philadelphia, in Feb. 1716, died March 30, 1799. He was of a family which had fled from France upon the revocation of the edict of Nantes. After receiving the rudiments of a classical education in Philadelphia, he was, at the age of 15 years, apprenticed to a surgeon of excellent talents, but of harsh disposition, with whom he passed unhappily 7 studious years. He practised his profession a few years in Philadelphia, but removed to New York in 1746, where, by the pleasantness of his manners and conversation, as well as by his professional skill, he rose to the first rank among physicians. In 1759, the citizens of New York were alarmed by the arrival of a ship, on board which a malignant fever was raging, and Dr. Bard was appointed to take measures to prevent the disease from spreading. He succeeded in keeping the pestilence within the limits of a temporary hospital, but to guard against similar dangers in future, at his suggestion, Bedloe's island was purchased, and hospital buildings erected thereon, which were placed under his charge. He retired for a time to rural life, but after the continued the practice of his profession to an advanced age. Upon the establishment of the New York medical society in 1788, he was elected its first president. In 1795 he displayed his professional ability by detecting the yellow fever in New York, which he had not before seen for nearly 40 years. He left an essay on the malignant pleurisy, and several papers on the yellow fever, and the evidence of its importation into this country.

its importation into this country.

BARD, SAMUEL, an American physician, son of the preceding, born in Philadelphia, April 1, 1742, died May 24, 1821. He studied in the schools of his native city, acquired an enthusiasm for botany during a summer residence at Coldenham, where he became acquainted with Miss Colden, well known as a correspondent of Linneus, and at King's, now Columbia college, in New York city, he received a thorough classical education. He adopted his father's profession, and pursued his studies in the medical school of Edinburgh, which was then in the highest repute. On his passage he was captured

arst obtained distinction by his work on the elements of logic, published in 1800, and directed, as a medicina mentis, against the then prevalent philosophy of Kant. He was an obscure writer, and even Germany found difficulty in discovering his meaning; but his system contains the germ of the later philosophy of absolute identity. He published other writings,

tains the germ of the later philosophy of absolute identity. He published other writings, which, like his first, indicate more earnestness of spirit than clearness of style.

BARDIN, JEAN, a French historical painter, born at Montbard, Oct. 31, 1732, died at Orleans, Oct. 6, 1809. Having escaped the drudgery of learning a trade, for which his parents had destined him, he was enabled to finish his studies in reginting in Rome whence he went to Paris, and painting in Rome, whence he went to Paris, and, in 1764, gained the prize for his picture of "Tulla driving over the Body of her Father." He continued for many years to paint in Paris, where his designs were much admired. His chef-daurre, "Christ disputing with the Doctors," procured him admission to the academy in 1795. Among his pupils were David and

eguault.

BARDINGS, horse-armor of the chivalric ages. It consisted: 1, of the chamfront, or cha-fron (Norman Fr. cheveron), guarding the fore-head and face, with a steel spike, like the horn of the unicorn, projecting between the eyes; 2, of the manifaire, a series of articulated plates, covering the crest and ridge of the neck, from the ears to the bows of the steel-plated saddle; 3, of the poitrel, a piece of solid plate armor, defending the whole shoulders and chest, from the insertion of the throat to that of the forearms forward of the saddle; 4, of the bard proper, protecting the whole croup and rump of the charger, from the castle of the saddle to the tail. These bardings were very costly, the best being made at Milan, or in Spain, where the steel was of the bighest temper, and were often beautifully engraved, enamelled, or oxidized and then polished in order to give it. idized, and then polished, in order to give it a russet hue, which was the height of military dandyism in the latter days of coat-armor, and inlaid with gold or silver, in arabesques or her-adic devices.—This word is often written, incorrectly, barbed, but barded is the correct word, derived from the bard proper, or cover-ing of the croup; thus, in the "Lay of the Last Minstrel :"

Never heavier man and horse Stemmed a midnight torrent's force; For the steed was barded from counter to tail, And the rider was armed complete in mail.

BARDNEY, a parish of England, county of A cross erected in this place is said

to mark the grave of Ethelred, king of Mercia.

BARDSEY ISLAND (or BARDS' ISLAND, so called from having been the last place of refuge of the Welsh bards), a small island of north Wales, county of Caernarvon, in the Irish sea, mear the north point of Candgair bay; area, 370 acres, nearly a third of which is mountain. It is a resort of egg hunters, and is only accessible on the S. E. side, where there is a sheltered an-

The island is the property of Lord chorage. Newborough.
BARDSTOWN, or BARDSTOWN, a flourishing

town of Nelson co., Kentucky, pleasantly situated on an elevated plain near the Beech fork of Salt river. It is the seat of St. Joseph's college, a prosperous Roman Catholic institution, under the charge of the Jesuits, incorporated in 1824, and numbering, in 1856, about 240 students, of St. Thomas's (Roman Catholic) preparatory theological seminary, and of 3 academies. It contains several churches, 2 or 8 newspaper offices, and has factories of cotton,

woollen, and other fabrics. Pop. about 2,000.

BARE POLES, in nautical language, the masts of a vessel at sea without any sails upon them. A ship is said to be under bare poles when the wind is so high that she dare not

CATTY any sail.

BAREBONE, PRAISE God, a leather dealer of London in the time of Cromwell. He was a leading member of the parliament of 1653, which was, on that account, nicknamed Bare-bone's parliament. A violent partisan of the cause of the commonwealth, Barebone, when Gen. Monk came to London, marched, at the head of a large procession of the people of that city, and presented to parliament a remonstrance against the restoration of the king. In 1661 he was arrested and thrown into the Town er on a charge of being concerned in a plot against the government. He was afterward reagainst the government. He was afterward re-leased, but his further history is unknown. It is said that 2 of his brothers assumed the names respectively of "Christ came into the World to Save Barebone," and "If Christ had not Died

Save Barebone," and "If Christ had not Died Thou hadst been Damned Barebone." The latter, it is added, was often designated, for the sake of brevity, by the 2 last words.

BAREFOOTED FRIARS. Going barefooted, was esteemed a sign of especial humility and penitence, and as such practised even by princes, before any religious order adopted it as a rule. The Franciscans were the first barefooted friars, having adopted the rule, as peculiarly suitable to their profession of extreme poverty. In process of time, the Franciscan family was subdivided into several distinct orders, some of which altered this rule, distinct orders, some of which altered this rule, while others retained it. It was imitated by the order of discalceated friars of our blessed Lady of Grace, by the Carmelites, and other strict orders. Since the 16th century, even the dis-calceated orders have generally worn sandals of leather or wood.

BAREILY, the capital city of the district of Hindostan, of the same name, in the province of Delhi, is situated on a branch of the Ganges, in lat. 28° 23' N., and long. 79° 26' E., 118 miles N. E. from Agra. It was ceded to the British in 1801, and made the seat of a circuit court, including 9 other districts, and of a civil establishment. The company's officials live in a citadel outside the town. The inhabitants are engaged in the manufacture of swords, daggers, carpets, saddles, housings, embroidery. gers, carpets, saddles, housings, embroidery,

it was only a few days before his fall that the committee had been able to pierce the hypocrisy of the dictator." But all these excuses were of no avail; accusations against the discredited reporter of the committee followed each other; reporter of the committee followed each other; and at last, Dec. 26, 1794, the convention resolved, on the report of Merlin, that there was occasion for examining Barère's conduct. On March 2, 1795, the decree of arrest against him, Billaud Varenne, and Collot d'Herbois, was issued, and their trial was commenced on the 23d. The suburbs St. Antoine and St. Marceau had been in such a state of agitation, that, two days previous, the convention had proclaimed martial law; on April 1 (12th Germinal), an attempt to save the three was only suppressed by force; and they were sentenced to transportation. The formidable insurrection of the 1st Prairial now broke out, and came near effecting their liberation and the overthrow of the government. The latter, however, was still victorious; and out of the "three great criminals," as they were called, two were already on their way to Cayenne. Barère alone had not left France; and before he could be transported, he succeeded in escaping from prison. Although under the weight of his condemnation, he was elected in 1797 to the legislative council; but that body turned him out, and a new order of arrest was issued, but not executed, Barère being still fortunate enough to escape all search. After the 18th Brumaire, he obtained the cancelling of his proscription, of the 1st Prairial now broke out, and came near he obtained the cancelling of his proscription, and became secretly attached to the police. Fouché employed him in writing pamphlets, moetly against the English and in the interest of Bonaparte. The first consul himself made him the editor of the Mémorial anti-Britannica. The paper failed, but Barère had in the mean time become one of the writers for in the mean time become one of the writers for the Moniteur. However, he was never openly recognized by the government; and the department of Hautes Pyrénées having elected him to the legislative body, he was mercilessly rejected by the senate. He was scarcely considered good enough for the secret service. During the 100 days he was called to the house of deputies, and published the Théories. house of deputies, and published the Théoris de la constitution de la Grande Bretagne, which produced a great impression, appearing just at the right time. On the second return of the Bourbons, he was banished as a regicide, and took refuge in Belgium, where he lived on a very moderate income and some literary a very moderate income and some interary earnings. After the revolution of 1830, he returned to France, and was in 1832 elected deputy, but on account of some informality, his election was declared void. He became a member of the general council of his department, and resigned only in 1840. The following year he died, 86 years old, respected by nobody, but invested with a sort of prestige by the remembrance of the great events he had associated. It would be easy to give a long list of the books he published; but nearly all

of them have lost their interest or are mere compilations. His *Mémoires*, written by himself, were published in 1834, with a notice by Carnot, the son of the member of the committee of public safety. These *Mémoires* were the occasion of a masterly essay by Macaulay, which should be read by whoever desires to thoroughly understand the man and the time.

BARETTI, Joseph, Italian author and traveller, born at Turin, March 22, 1716, died in London, May 5, 1789. At an early age his tastes were literary, and, after executing some translations in his native land, he went to London, in 1751, as a teacher of Italian. In 1758 he became intimate with Dr. Johnson. After he had published a Catalogue raisonné of Italian literature, he went abroad, in 1760, and Johnson declared of his book ("Travels through Spain, Portugal, and France"), that he did not know whether the world had ever seen such travels before, so well had he written. Several years elapsed before Baretti returned to England, in 1769, during which interval Johnson frequently wrote to him. This period was principally spent in Italy, which he was compelled to leave, having established at Venice a critical journal, called Frustra letterária (the "Literary Scourge"), in which he ran into considerable personality. In October, 1769, he got involved in a street brawl in London, and drew his penknife in self-defence, when assailed by 8 men at once, giving one of them a stab, which proved fatal. He was tried for murder at the Old Bailey; made his own defence, called Burke, Johnson, Garrick, and Beauclerk to prove his inoffensive character, and was acquitted. After this, he was appointed foreign corresponding secretary to the royal academy. He subsequently published an account of the manners and customs of Italy, a dissertation, in French, exposing the blunders Voltaire had made in writing about Shakespeare, an Italian grammar, a Spanish-English and an Italian-English dictionary, the last of which continues in use at numerous schools in England and this country. Dr. Johnson (who said, "I know no man who carries his head higher for conversation than Baretti") procured him the situation of Italian teacher in Dr. Mede's family. In 1782 Baretti's salary, as secretary of the royal academy, was increased, so as with the profits from his books to give him a competency for the remaining years of his life.

BAREZZI, STEFANO, a painter in Milan, who has discovered a process for transferring frescoes from walls to wooden tables. He is still living.

BARFLEUR, an ancient seaport of France,

BARFLEUR, an ancient seaport of France, 15 miles E. of Cherbourg, pop. 1,185. Its harbor, formerly one of the best in Normandy, is now choked with sand. William the Conqueror is said to have sailed hence to invade England.

BARFOD, PAUL FREDERICH, a Danish politician and historian, born in 1811, near Grence, in Jutland. Professing in early life the strongest monarchical opinions, he changed at a

ate with Sydney Smith. In 1837, on the lishment of "Bentley's Miscellany," Mr. am contributed the "Ingoldsby Legends," a sof humorous stories, chiefly in verse—the ty and flow of which, with the felicity of st-of-the-way rhymes, instantly won popuvor. Three volumes of these legends were y collected, to the last of which was pre-a life of "Thomas Ingoldsby," by the ger Mr. Barham. In 1840, Mr. Barham eded, for a year, to the presidency of Sion ge. In 1842 he was promoted to the diy readership of St. Paul's, and allowed to inge his living for the more valuable one t. Faith. In Oct., 1844, when Queen ria opened the royal exchange of London, Barham caught a severe cold, which, 8 hs afterward, caused his death. RI, a fortified seaport of Naples on the atic, capital of the province of Terra di Bari; \$7,297; lat. 41° 7' 52" N., long. 16° 53' 4" E. on the site of the ancient Barium. It has tive trade with Trieste and the Dalmatian , in corn, oil, wine, &c. It is environed tensive clive and almond plantations. In me of Charlemagne it was the principal ghold of the Saracens on the Adriatic. 0 it was taken by Louis II. after a siege rears. In the 10th century it was held by reek emperors, who made it the seat of overnor of all the Greek possessions in In the 11th century it was taken by the

ans under Robert Guiscard. Queen Bona a died here in 1557; a black marble saragus supports an effigy of the queen in marble, and commemorates her resting. The remains of St. Nicholas, brought Myra, in Lycia, were deposited here, in licen of Sar Nicola

Myra, in Lycia, were deposited here, in riory of San Nicola.
RI, TERRA DI, a province of the kingdom ples, bounded N. by the Adriatic, E. and by the Terra d'Otranto, S. and S. W. by province of Basilicata, and W. by that of anata. Area, 2,358 sq. m.; pop. in 1850, 32. It is the most fertile province of the lom. Wheat is produced in great quantithe other area. om. Wheat is produced in great quanti-the other crops are olives, tobacco, cotton, and various fruits. There are extensive ies and salt-works on the coast. The heat nmer is extreme, and causes a great defi-7 of pure water. The principal trade of rovince is with Naples, Venice, Trieste, he coast of Dalmatia. The Terra di Bari d the portion of ancient Apulia known as a Pencetia. It was traversed by the fa-Appian way. RIATINSKY, PRINCE, born about 1812, in www, descended from an ancient and once

eign family. After finishing his studies in coum of Tsarskoe-Selo near St. Petersburg, velled in Europe, and resided several years ienna. Returning to Russia he entered illitary service and became a licutenant le-camp of the emperor Nicholas. Hand-of distinguished manners, and of a lrous character, he became intimate at

the court, and a favorite with the imperial family, and especially with the hereditary grand duke, now emperor of Russia. Soon, however, an unposition, obligation, hout 1838 ever, an unhappy passion for one above his position, obliged him to leave the court. About 1838 he entered the army of the Caucasus, and won there on various battle fields, the higher military ranks. His unsurpassed bravery, cheerfulness, care and good treatment of the rank and file, made him beloved by the army. He remained almost uninterruptedly for 20 years in the Caucasus, commanded with distinction in the last eastern war, and repressed the attempted inva-sion of Mingrelia by the Turks. He was raised to the dignity of an aide-de-camp general, or full general of infantry, and as the favorite and friend of the reigning emperor, the most brilliant career was opened to him at the court; but he preferred the command in the Caucasus, where he is now invested with almost unlimited power.

BARIGAZZO, a village of Italy, in the duchy of Modena. Near this place is witnessed the phenomenon of natural fire issuing from the soil, ascending several feet, and continuing for some days without intermission.

BARILE, a town of Naples. It was founded by a Greek calculus of the leveral employer of the leveral employer.

by a Greek colony of the lower empire, and as late as the 17th century, the rites of the Greek church were still practised here. Pop. 8,780. BARILLA, crude carbonate of soda, also called soda-ash, from the method of its preparation.

ration. Formerly an important commercial article, largely manufactured on the eastern coast of Spain, and the shores of the upper Mediterranean. It is obtained from plants of the genus salsols. These are largely cultivated, Mediterraneau.
the genus salsola. These are largely cure vacce, cut and dried like hay, and then burned in holes in the ground. The crude soda runs out in a in the ground. The crude sods runs out in a red-hot fluid state and collects in the bottom of The burning is continued by addition of fresh material, till the holes are filled with the alkali. They are then covered up and left to cool for a week or two. The product is left to cool for a week or two. The product is a gray porous mass, containing from 16 to 30 per cent. of carbonate, but not averaging more than 20 per cent. The impurities are common salt, and sulphate of soda, lime, and alumina. Sulphur also is found in small quantity.—Kelp ash made from drift sea plants is a still more impure article than barilla; and the use of this has very much declined since the manufacture. has very much declined since the manufacture has been introduced of carbonate of soda direct from sea salt. The principal uses of barilla are to furnish the alkali required in the manufacture of glass and soap.

BARIMA, a river of British Guiana, which

empties into the estuary of the Orinoco, just west of the headland of the same name, in lat.8° west of the headland of the same name, in lat. 8.
46' N., long. 60 W. Sixty miles above its mouth
a natural canal 8 miles long connects it with
the Waini, a stream navigable for 70 miles,
having a depth of from 4 to 11 fathoms. The
country bordering both streams is remarkably
abundant in the valuable black mora timber,

mphlet and a speech of Lord Brougham pamphlet and a speech of Lord Brougnam sormed the text and furnished the material of a spirited article on the "Orders in Council," in the "Edinburgh Review," for April, 1808. It is melancholy to reflect that measures should have been persisted in by the government of Great Britain, till they drove the United States to a declaration of war, which are now admitted, by the highest legal authorities of England herself, to have been in violation, not only of the law of nations, but of her own municipal law. In 1810, by the death of his father, Mr. Baring the head of the important house of which he was a partner, and which has stood for near a century among the most respectable in the commercial world. With the exception of a short period under Gen. Jackson and his successor, the house of the Barings have been the bankers of the government of the United States from the commencement. In that cascity, during the war of 1812, they continued to pay the interest on the public debt of this country owned in Great Britain, without remittances and without instructions. In 1812, Mr. Baring came into parliament and represent-ed successively till 1881 the boroughs of Taunton, Callington, and Thetford. In 1832 he ras elected a county member for North Essex. His early political associations were with the whig party; and the removal of the restrictions on trade, and questions of finance, received most of his attention as a public man. On subjects of this class his opinions—ever held and expressed with moderation—were regarded as an authority. In the great crisis of 1831, when the balance of political power in the kingdom was readjusted, Mr. Baring opposed the reform project of Lord Grey as dan-gerous to the stability of the country, following on this occasion, as afterward in reference to the repeal of the corn laws in 1846, the inof the landed proprietor rather than those of the enterprising merchant. This circumstance brought him into connection with the newly organized conservative party (so called at this time), and on the return of Sir Robert Peel to power in 1834, Mr. Baring became a member of the cabinet, as president of the board of trade and master of the mint.—
In April, 1835, he was raised to the peerage as Lord Ashburton. This title was chosen in consequence of a family connection, on the female side, with the celebrated lawyer, John Dunning, the first Lord Ashburton. house of peers, Lord Ashburton supported the measures of Sir Robert Peel till the year 1846, when, with many others of the conservative party, he separated himself from the premier, party, he separated himself from the premier, on the repeal of the corn laws;—a measure which he probably would have approved in earlier life, but which he now regarded as unjust to the landed interest. But the most important event in Lord Ashburton's political career was his appointment as special minister to the United States in 1842. When Sir Robert Peel returned for the last time to power in the autumn of 1841, the relations of the two countries were in a most critical condition. Several subjects of controversy existed, one of them dating from the peace of 1783, which had exhausted the resources of diplomacy. The north-eastern boundary of the United The north-eastern boundary of the United States was the most important of these, as being most likely to lead to direct collision on the frontier; but the detention and seizure of American vessels by British cruisers on the coast of Africa, and the affair of the Caroline and McLeod, were scarcely less formidable. Had the diplomatic correspondence of the two governments continued in the train of rapidly increasing irritation, in which it was left by the Melbourne ministry in 1841,—Lord Palmerston being the foreign secretary and Mr. Stevenson the American minister,— a rupture could hardly have been avoided. One of the first measures of Sir Robert Peel and Lord Aberdeen, his foreign secretary, on coming into power, was to send Lord Ashburton as a special minister to the United States, with full powers to settle every question in controversy between the two countries. He was selected for this important mission on the avowed ground of his American connections and his known friendly feelings toward this country. He brought to his important duties a conciliatory temper, and was authorized by his instructions to come to any adjustment consistent with the honor of Great Britain. On this peaceful errand he embarked in a sailing vessel in mid-winter. He was met by President Tyler and Mr. Webster, then secretary of state, in the same friendly disposition. Commissioners were appointed, on the part of Massachusetts and Maine, to represent the interests of those states involved in the north-eastern of those states involved in the north-eastern boundary; and after a negotiation of a few months, the treaty of Aug. 9, 1842, was concluded, both parties, as is usual, and indeed necessary in such cases, relaxing somewhat of their extreme pretensions. The personal confidence of the respective negotiators in each other, and the private friendship existing between them no doubt contributed materially. tween them, no doubt contributed materially to this result. The treaty was assailed by the opposition in England, led by Lord Palmerston, as the "Ashburton conitulation." and in the as the "Ashburton capitulation;" and, in the United States, Mr. Webster was charged with having been overreached by Lord Ashburton, and duped into the sacrifice of the rights of the country; but public opinion, on both sides of the water, has sanctioned it as a satisfactory adjustment of difficult matters of controversy, some of which had embarrassed the relations of the two countries for 60 years. The unpreceof the two countries for 60 years. The unprecedented compliment of a vote of thanks for a civil service was paid to Lord Ashburton, on the motion of Mr. Hume, in the house of commons, and of Lord Brougham in the house of lords; and an earldom was offered to Lord Ashburton, which he declined. Mr. Webster was rewarded by a charge equally unfounded and harassing, brought forward in the house

BARK. This is to the tree what the skin is to the animal body, its outer covering and protec-tion. It is also the channel through which the the descends from the leaves. The true bark, which separates from the wood, is only found in the exogenous and gymnospermous classes of plants. Its construction is of cellular tissue, traversed longitudinally by woody tissue, which composed of woody tubes, through which the p elaborated in the leaves descends. It is also s composed of nnected through channels, called medullary processes, with the woody portion of the tree, which receives through these the secretions that add to its growth, and which are deposit-ed around its external part, just beneath the bark. The bark itself receives its annual layers of growth on its inner surface next the wood.

This portion being called *liber*, the name was subsequently applied to the book, which was written on its leaves or plates. The external portion of the bark becomes like a dead sourf, nd is continually shed as it is renewed from rithin. The common cork is this dead portion within. The common cork is this dead portion of the bark of the quercus suber. In some species of trees, particularly those exposed to severe northern climates, the bark, like the coating of the wild animals, is of great thickness and warmth. Thus in some varieties of the the it has been found over a foot thick, and in other trees, as the birch, it contains between its layers air cells, which serve by the non-conducting property of air to promote the warmth of the wood. When the bark of a tree is cut across to the wood, the sap is arrested in its across to the wood, the sap is arrested in its descent, and is seen oozing out in drops from the upper side of the cut, the lower side remaining dry. If this circulation should be entirely cut off, the plant must die. The resins and gums are thus collected, and the sweet sap of the maple and other trees. The bark, retaining a considerable portion of the secretions of the descending sap, generally stores up more than any other part of the plant, its peculiar chemical properties, and hence we find it containing cal properties, and hence we find it containing those essences that give to vegetable products their value for medicinal and other uses. The bark of the cinchona is the repository of the vegetable extract, quinine (see Cinchona); that of the oak and hemlock (abies Canadensis), of the tannin, which makes them valuable to the tanner; and it is the bark of the cinnamon in which we find the peculiar agreeable essence of this plant.

The fibres of the bark are often so strong and flexible, that they are used for ropes and cords. On such materials were suspended the bridges of the ancient Peruvians; and among half civilized people in most parts of the world some tough flexible barks may almost always be found supplying the place of hempen cordage. In our own country, the leather-wood, direa solutivis, is used for this purpose, as also the inner bark of the white cedar. In the West India islands a remarkably tough bark, called in Spanish mihagua, is in very general use for a great variety of purposes, often supplying the values of pails as well as of repose. place of nails as well as of ropes.

BARKAL, or JEBEL BARKAL, an isolated sandstone rock, 400 feet high, in Nubia, near the Nile, lat. 18° 31′ N., long. 31° 46′ E. It is nearly perpendicular on all sides, but fully so on the side nearest the Nile. There are some remarkable ruins in the vicinity.

BARKEHDIEH, a populous village on the Senegal, western Africa. It is the residence of the chief of a warlike and agricultural tribe

called Daliankes.

BARKER, EDMUND HENEY, an English Greek scholar, born at Hollym, Yorkshire, Dec. 1788, died in London, March 21, 1839. He resided for some time at Hatton, near Warwick, where he was permitted to use Dr. Parr's valuable library. While there he undertook the labor of reprinting the Thesaurus Gracus of H. Stephens, upon which was expended an immense amount of time and money. Owing to severe adverse criticisms, the work did not appear in the form which was originally intended, or under Mr. Barker's name. His first work, "Classical Recreations," appeared in London, 1812; one volume only was published. He also wrote several dissertations, essays, &c., for reviews; a work upon the claims of Sir Philip Francis to the authorship of the Junius letters; a Greek and English dictionary, &c. In the latter part of his life, Mr. Barker having dissipated all his property in disputing a will, became so reduced that he was at one time confined in prison, and finally died in an obscure lodging-house in extreme want.

BARKER, HENEY ASTON an English

BARKER, HENRY ASTON, an English painter, son of Robert Barker, born at Glasgow in 1774, died at Bitton, near Bristol, July 19, 1856. He was a pupil of the royal academy, London, and among his estimable associates there was J. W. M. Turner, the celebrated landscape painter. Barker undertook the management of the Leicester square panoramas, which had been established by his father, and in 1816, became the owner of another panorama in the Strand, which he purchased in conjunction with Mr. John Burford. Many of the principal events in connection with the wars of Napoleon, Nelson, &c., were skilfully used by Barker for his panoramic purposes. The pecuniary success which he achieved by the exhibition of a panorama of the battle of Waterloo, enabled him to retire from active business, in 1826.

BARKER, JACOB, an American financier, born at Swan Island, Kennebec county, Maine, Dec. 7, 1779. By the mother's side he is descended from the same stock as Dr. Franklin, with whom he is proud to claim a certain family resemblance. She was of a Quaker family of Nantucket, and young Jacob was brought up in that communion, to which, and to their unpretending costume, he long adhered. At 16 he was adrift in the world and came to New York, where he got employment with Isaac Hicks, a commission merchant, and beginning to trade on his own account, in a small way, before his majority was in possession of 4 ships and a brig, and had his notes regularly discounted at the

every person who claimed the right to display norial bearings.

England, county of Essex, 7 miles E. N. E. of England, county of Essex, 7 miles E. N. E. of London; pop. of town, 4,980; of the parish, 2,888. Barking abbey, once believed to have been the oldest and richest nunnery in England, was founded in the year 677. In 870 it was burnt to the ground, and the nuns killed and dispersed by the Danes. In the middle of the 10th century it was rebuilt and restored by King Edgar. Several of the queens of England, and other noble ladies, assumed the office of and other noble ladies, assumed the office of abbess of this convent. The abbess of Barking was one of the 4 persons who were baronesses by right of their station; and though her sex prevented her from sitting in parliament or attending the king in war, she always furnished a quota of men, and lived in grand state. In 1628 the abbey estate was sold by Charles I. to Sir Thomas Vanshaw, but now scarcely a vestige of the buildings remain.

BARKWAY, a village in Hertfordshire, England, 34 miles north of London; pop. 1,840.

It consists principally of one long street, and its

It consists principally of one long street, and its chief object of interest is its church, a handsome structure containing some interesting old monuments. This town is older than the con-

monuments. This town is older than the conquest, and with its neighboring lands was divided by William among 4 great lords. In 1592 a conflagration almost entirely destroyed it.

BARLAAM, a Greek theologian, born at Seminaria, in Calabria, died about 1348. He was a monk of St. Basil, and noted for his learning, and particularly for his thorough knowledge of the Greek language. In 1327 he visited Constantinople, and in 1331 he was appointed abbot of the convent of St. Salvator, which position he soon lost by his pedantic and supercilious behavior. In 1339 the kings of France and Sicily sent Barlaam in vain to Pope Benedict XII. at Avignon, for the purpose Pope Benedict XII. at Avignon, for the purpose of obtaining assistance against the Moham-medan, and of arranging a union between the Greek and Latin churches. Henceforth he was engaged in various religious controversies, and to the Roman church, and through the influence of his friend Petrarch received from Pope Clement VI. the bishopric of Geraci.

merous writings are forgotten.

BARLÆUS, GASPAR. See BARRLE.

BARLETTA, a fortified town in the Neapolitan province of Terra di Bari, on the Adriatic coast, in lat. 41° 20′ N., long. 16° 18′ E.; pop. 19,929. It has a light-house and an anchorage for small vessels. The streets of the town are wide, and well paved; the houses of stone, and lofty. A colossal bronze statue of the emperor Heraclius, is the principal monu-ment in the town. Ferdinand I. of Aragon, was crowned in the cathedral, which is a Gothic build-At the siege of Barletta by the French, under the Duke de Nemours, the famous battle, in pursuance of a challenge, was fought Feb. 16, 1503, between 11 French and 11 Spanish cavaliers. The chief of the former was the illustrious Bayard, and the chief of the latter, Prospero Colonna. At the first collision 7 of the French knights were unhorsed, but Bayard and his 8 remaining comrades fought with such desperate skill that the tournament ended a drawn battle.

BARLETTA, GABRIELLO, an Italian preacher, born at Barletta, in the kingdom of Naples, lived in the 2d half of the 15th century. He belonged to the order of St. Dominic, and rendered himself famous both by his eloquence and eccentricity. He had a habit of inserting parentheses between the clauses of the prayers, and other parts of the service, in which he made practical comments and sharp personal illustrations, in order to add to the force of the Though his style of preaching had not liturgy. the merit of being in good taste, it was yet very effective, and the esteem in which he was held was expressed by the proverb, nescit pradicare, qui nescit barlettare. A collection of

his sermons passed through about 20 editions.

BARLEY (hordeum), a very valuable grain,
more widely distributed and generally used than any other, and from the most remote times an important article of the food of man. Pliny speaks of it as the first grain cultivated for nourishment. It is adapted to hot and cold climates, in the former being obtained in 2 successive crops in a season. Where it originated is not known, but the plant grows wild in Sicily and the interior of Asia and the comin Sicily and the interior of Asia, and the common species is stated by Pursh to occur apparently in a wild state in some parts of the United States. The barley cultivated in this country is of 2 species, the *H. vulgare*, and the *H. distichon*, the grains in the former being arranged in 4 rows, and in the latter in 2. Beside these a third species is cultivated in Europe called the *H. hernstichon*, also called Europe, called the *H. herastichon*, also called the autumn and winter barley. This has 6 rows of grains, each row terminating in a long beard. This is always sown in the fall, and ripens the first in the summer. Its grains are ripens the first in the summer. Its grains are small, but the yield is large—sometimes 20 for 1. The Scotch bere or bigg is of this species. The *H. distichon*, or English barley, was originally from Tartary. It has the grain naked of any beard. It is more productive than the other kinds, and succeeds in almost all soils. The grain is excellent feed for cattle and all harpward stock. The most usual group in Barn is excenent feed for cattle and an obsern-yard stock. The most usual crop in Great Britain is from 28 to 40 bushels to the acre, the weight of the bushel being from 50 to 54 lbs., according to the quality of the grain. Barley hulled and ground makes a coarse, heavy kind of bread, and is very extensively applicated in the manufacture of hear and to heavy kind of bread, and is very extensively employed in the manufacture of beer, and, to some extent, for medicinal purposes. Barley corns are of an oval, elongated shape, pointed at one end and obtuse at the other, and marked with a longitudinal furrow. Their color externally is yellowish, but within they are white. Stripped of their outer covering or husk, and rounded and polished in a mill, the grains are but died at a Jewish cottage in Poland, before accomplishing his mission. His last poem, dic-tated from his bed, was a withering expression of resentment against Napoleon for the hopes
which he had disappointed.
BARLOW, PRIER, an English mathematician, born in 1785, received the Copley medal

in 1825, and was elected a member of the institute of France. He discovered a mode of obviating the effect of iron bands upon the magnotic needle. He also made an improvement in achromatic telescopes, and constructed the largest then known in England, the opening being 8 inches in diameter. He has also paid consider-

able attention to the construction of railroads.

BARLOW, THOMAS, an English divine and
bishop, was born in 1607, and died at Bugden,
Oct. 8, 1691. In 1635 he was appointed reader of metaphysics to the university of Oxford, and in 1657 was chosen provost of Queen's college. On the restoration of Charles II., he was one of the commissioners appointed to restore members of the university unjustly expelled in 1648. He became bishop of Lincoln in 1675. the so-called popish plot, he published several tracts against the Catholics, but on the accession of James II., he veered toward Rome. In 1688, he readily voted that the throne was racant, and was most zealous in excluding from

their benefices the nonjuring clergy.

BARLOWE, WILLIAM, an English theologian,
born near the beginning of the 16th century,
died in August, 1568. Before the reformation
be belonged to the order of St. Augustine, received the degree of doctor of theology at Oxford, was elected prior of the house at Bisham, in Berks, and in 1535, was sent by Henry VIII. on an embassy to Scotland. He secured the favor of the king by abstaining from all opposition to the suppression of the monasteries, and by advising his associates to do the same; and the was rapidly promoted, being appointed to the bishopric of St. Asaph in 1535, to that of St. Davids in 1537, and to that of Bath and Wells in 1547. At this time he formally left the Roman Catholic church, and married; and was distinguished for his Protestant zeal during the reign of Edward VI. Under Mary he lost his bishopric, and for a time his liberty, and retired to Germany till the accession of Elizabeth. In 1559 he was made bishop of Chichester, and continued in this see till his death.

He left a work entitled "Cosmography," and several slight controversial treatises, now of little value. He had a numerous family, and it is recorded that his five daughters all became

is recorded that his five daugnters and the wives of bishops.

BARLOWE, WILLIAM, an eminent mathematician and divine, and the first writer on the properties of the magnet, was the son of the bishop of Chichester. After taking the degree of A. M. at Oxford, he went to sea, where he acquired some knowledge of navigation. Having entered the church, in 1573 he became prebendary of Winchester, and, in 1614, archdeacon of Salisbury. He died May 25, 1625.

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BARMECIDES (children of Barmek), a celebrated family of Khorassan, attached to the Abasside caliphs. One of them, Khaled ben Barmek, was tutor of Haroun al Rushid. His son, Yahia, became the vizier of Haroun in 786, and contributed greatly to the renown of his master's reign. He had two sons, Fadhi, who was distinguished as a soldier and as mineral contributions in the ister of justice, and Giaffar, who figures in the Arabian Nights as the friend and confidant of Haroun. At the same time some 25 members of the family held important civil and military dignities. The downfall of the Barmecides took place in 803. Giaffar was beheaded at the age of 37, at Anbar, on the Euphrates; Yahia and Fadhl were thrown into prison at Racca, where they died in chains, while nearly all their relatives were arrested and deprived of their prop-The reason for this severity on the part of Haroun was jealousy of the immense popularity and power of the Barmecides; and its occasion has been found in the birth of a son to his sister Abassa, whom he had married to Giaffar, on condition that the union should remain purely Platonic. Ibn Khaldoun, the historian, dis-putes the truth of this story, which in modern times has afforded a theme to poets and drama-tists. To one of the Barmecides is attributed the famous feast in the Arabian Nights, where the guests were served with only imaginary viands.

BARMEN, a long and beautiful valley on the Wipper, in Rhenish Prussia, occupied by 7 vil-Wipper, in Taleana lages, which produces the effect of a continuous town, and are included in one parish. Here is the most important ribbon manufacture in Europe. Cottons, velvets, silks, chemical products, plated-ware, &c., are also produced. There is a high-school and deaf and dumb asylum. Pop. at the end of 1855, 41,442.

BARN (Saxon, berern, from bere, barley, and sern a close place or repository). The word

BARN (Saxon, verern, nome err, a close place or repository). The word seems to have had its origin in the use of a seems to far storing grain. With us it has a building for storing grain. With us it has a wider signification—all structures of any capawider signification—all structures of any capacity used on a farm for storing crops and sheltering stock being known as barns. In the changeable climate of the United States, with its severe winters, protection to cattle becomes an important item in the operations of husbandry, and as our agriculture becomes more highly developed we construct more expensive, convenient, and useful barns. A well-built barn, embracing all the conveniences needed for the easy and safe storing of crops, and the comfort and well-being of farm stock, will always be one of the safest and best investments a farmer can make. Barns and best investments a farmer can make. Barns were scarcely known in many portions of England 150 years ago, and cattle were seldom housed. In our days the best barns are to be seen in Northumberland and the Lothians. Many of them are built of stone, roofed with tile or slate from Welsh or Northumberland quarries, floored with slate and provided with admirable appointments. At one time the barns on many estates were capacious enough to conlation of air beneath the wooden floor. We need no such precaution in our drier climate. Roofs used to be formed of coarse rushes or reeds properly bound, straw thatch, or clay tile, laid in coarse hay or mortar. In England they are now generally formed of shingles of wood or slate; in this country they are usually of wood, and now and then of slate. The preparation of corrugated iron, at a comparatively cheap rate of cost, suggests that material as one of the best for a well-built barn. The roof deserves more attention than it usually receives at the hands of the farmer who wishes to be truly economical in his expenditure for buildings. Finally, let all farmers remember that ventilation is one of the most important things to be secured, especially in stock barns.

to be secured, especially in stock barns.

BARNABAS, Epistle of, an ancient epistle in the Greek language, divided into 20 chapters, 4½ of which are wanting, at the beginning of the epistle, in all the Greek MSS., but were found by Hugh Menard in an ancient Latin version. This epistle is cited by ancient authors as far back as Clement of Alexandria. During the 9th century, it was lost, and was again discovered in the 17th by the Jesuit, Bigimond. It is a question among the learned, whether it is the work of the apostle Barnabas, or not. Hefele, a distinguished living scholar of Germany, labors to prove that it cannot be; and attributes it to a Christian of Alexandria. of the early part of the 2d century.

andria, of the early part of the 2d century.

BARNABAS, SAINT, one of the so-called apostles of the second class, i. e. a bishop, ordained by the apostles strictly so called, and associated with them in a wider circle of labors, and a more extensive exercise of episcopal authority, than were assigned to ordinary bishops. His proper name was Joseph; Barnabas being an appellative given him by the apostles, and signifying "Son of Consolation." He was a Helenist Jew, of the tribe of Levi, and was born at Cyprus, apparently of wealthy parents, engaged in trade, as he is said to have been one off those who brought their property to the apostles for the common fund. Clement of Alexandria says he was one of the 70 disciples of Jesus Christ, and Alexander, a monk of Oyprus of the 6th century, narrates that he studied under Gamaliel, at Jerusalem, and was converted by seeing the miracle of the healing of the lame man at the pool of Bethesda. St. Barnabas is said, by the early Christian writers, to have been a man of majestic figure, and great manly beauty, which accounts for his having been taken for Jupiter by the pagans of Lystra, as related in the Acts of the Apostles. That he was a man of extraordinary talent and zeal, is manifest from the notices of him in the Holy Scriptures and elsewhere. He was one of the first to comprehend the catholic character of Christianity, and its destined triumphs among the heathen nations. He first appreciated the special vocation of St. Paul, and when the other Christians looked on him with suspicion and distrust, took him under his protection.

Barnabas was sent by the apostles to govern the first Gentile Christian congregation at Antioch, where the name Christian first came into use. While there, he sent for St. Paul to join him, and the latter seems to have been at first acting under his orders. In concert with him, he planned and undertook the first great missionary tour (A. D. 45, 46). At the end of this tour, they returned to Antioch, and when the Judaistic and catholic principles came into collision and caused a controversy, both went on to the council of Jerusalem, where Barnabas exerted a powerful influence in ridding Christianity of Jewish rites, and obtaining an authoritative recognition of its catholic character. On his return to Antioch, he remained there in company with St. Paul between 1 and 2 years, when they consulted together about a second missionary tour. Disagreeing about some of their arrangements, each one marked out his own plan of operations for himself. Nothing is known concerning the place, time, or manner of his death. Alexander of Cyprus relates that he was stoned to death by the Jews at Salamis, between A. D. 53 and 57, and that his body was found by Anthonius, bishop of Salamis, about the year 491.

BARNABITES, a religious order, properly called Regular Clerks of St. Paul, and deriving the name of Barnabites from their church, dedicated to St. Barnabas at Milan. This order con-

BARNABITES, a religious order, properly called Regular Clerks of St. Paul, and deriving the name of Barnabites from their church, dedicated to St. Barnabas, at Milan. This order consists at present of 2 branches, formerly distinct, but united into one during the time of St. Charles Borromeo. The origin of the older branch, who were properly called Ambrosians, is uncertain, but is supposed to date from the pontificate of Gregory XI. (1370–1378). The younger branch was founded during the 16th century, for the purpose of preaching and administering the sacraments among the populace of Milan, who had become much corrupted by the continual presence of a multitude of Greman soldiers in the city, and who were also much afflicted by pestilence. In 1579, their constitutions and rules were fully revised and established, under the direction of St. Charles Borromeo. The mother-house is at present in Rome, and the order numbers about 20 colleges in Italy and the Austrian dominions.

in Italy and the Austrian dominions.

BARNACLE, a name commonly given both to the pedunculated and sessile cirripeds. By the older naturalists they were classed with the testaceous mollusca, the pedunculated forming the genus lepas, and the sessile the genus balanus. Those provided with the fieshy peduncle or footstalk, as well as those without it, are found firmly fixed below the level of the water to the surface of rocks, shells, and floating substances. Adhering to the bottoms of vessels, they are carried to almost all parts of the world, and are found in almost all seas, even in the Arctic ocean. In warm climates, particularly, the barnacles attach themselves in such numbers to the bottom of vessels, especially to those not protected by copper, as often to retard their

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Government, and the evils inseparable from the American college system in its present form," was published. This is a work of extraordinary ability, and has excited the attention of the ablest minds of the country. About the same time, though perhaps written previously, appeared his "Report on Collegiate Education made to the Faculty of the University of Alabama in 1854." Dr. Barnard has been a contributor to the "American Journal of Education" from its commencement.

BARNARD, HENRY, LL. D., a distinguished ducator, born in Hartford, Connecticut, Jan. 24, 1811. He entered Yale college in 1826, and graduated in 1830. He had decided to devote himself to the legal profession, but, regarding a thorough acquaintance with English history and literature as indispensable, he spent 2 hours a day, for the first 2 years after his graduation, in reading law, and the remainder of his time in attaining a familiarity with the best English classics. At the expiration of this period, he expirate with graduation of the study of entered with great zeal upon the study of the law, but reserved 2 hours a day for classical **cu**lture. He next spent some months in travel, visiting almost every part of the union, and having been admitted to the bar, sailed in 1835 for Europe, where he spent about 18 months, devoting his attention mainly to the social condition of the people, traversing the greater part of England, Scotland, and Switzerland, on foot. Recalled from this tour by the sickness of his father, in 1837, he was elected a member of the state legislature, and for 3 years represented his native city in that body, with great ability. During this period, he devoted special attention to the promotion of humane and scientific objects, urging and securing appropriations for the education of the deaf and dumb, and the blind, for the improvement of the condition of the indigent insane, and the town poor; the reorganization of county prisons, the incorporation of public libraries, and the completion of the geological survey of the state. The most signal service, however, which he rendered to the state, was, in the origination and carrying through an act for the reorganization of its common school system. The bill, which, under his influence, passed the legisla-ture, provided for the appointment of a board of commissioners of common schools, who should investigate the condition of the schools of the state, and by addresses, lectures, correspond-ence, and the recommendation of such meas-ures as might promote the cause of education, endeavor to elevate and improve them. Of this board, Mr. Barnard was a member and the secretary for 4 years. In 1842, a change occurring in the politics of the state, the act establishing a board of commissioners was repealed, and the old order of things restored.—The ensuing 15 months were spent in a tour of the United States, for the purpose of obtaining the materials for a work on the "History of Public Schools and other means of popular education in the United States." Just as he had completed his

preparations for writing this work, he was called to Rhode Island, to take charge of the public schools of that state. Here, in the short space of 5 years, he created and thoroughly established a system of popular education, which, under the wise and careful administration of his suc-cessors in office, has become a model for gen-eral imitation. His labors during this period were excessive, and, but for the extraordinary vigor of his constitution, he must have sunk under them. At length his health began to give way under such severe toil, and he was compelled to resign his office. He returned to Hartford, resolved to rest from his labors; but, to a man of his ardent temperament, rest was impossible. His pen and mind were still busy on his favorite subject. School architecture, a matter on which he had bestowed great labor and thought, the organization of teachers' institutes, which he had originated in 1839, the practical awakening of the minds of the people to the necessity of a higher standard of education, all employed his time. Through his influence, wealthy and intelligent men throughout. fluence, wealthy and intelligent men throughout the state became interested in the cause. Graded schools became popular; high schools were established in several of the cities and larger towns; teachers' institutes were organized in every county, and in 1850, the demand for edu-cated and skilful teachers had become so great that a normal school was demanded. It was established, and the part of principal was conferred on Mr. Barnard. To the duties of the office were added those of state superintendent. The progress made in the cause of education in Connecticut during the succeeding 4 years was extraordinary, and testified to the energy and ability of the superintendent. At length in January, 1855, enfeebled health compelled him again to retire from the work of his choice, not as before to see it overthrown, but to commit it to other hands who would carry out his views. In the summer following, he commenced the publication of the "American Journal of Education." To this and to the preparation of some works on education he is now devoting his time. Mr. Barnard deserves the credit to an uncommon degree of possessing great practical talent. In his whole career, his aim has been to secure the greatest amount of practical results in a given time, in the promotion of educational measures. Mr. B. is well known and highly honored by the friends of education and philanthropy in Europe. In this country he was elected to the presidency of the American association for the advancement of educaican association for the advancement of educaican association for the advancement of education in 1855, and was offered the presidency of two state universities. The degree of LL. Was conferred on him in 1851 by Yale and Union colleges, and the year following by Harvard university. His principal works are: "School Architecture," of which over 130,000 copies have been circulated, "Normal Schools in the United States and Europe," "Tribute to Gallaudet, with History of the American Asylum and of Deaf Mute Instruction," "National Educa-

men dig a hole to the bed of auriferous sand, and the officers note carefully the quantity of gold obtained from 100 pounds of sand. This operation is repeated at intervals of 50 paces, and the result is laid before the director in Barnaul, who decides where there is sufficient gold to pay for working. At the same time the rocks are examined in search of silver ore. A geological map of the Altai is now in preparation by the officers in Barnaul, which, when completed, will probably be one of the best ever constructed by any geologist. On the north side of Barnaul, there is a magnetic observable of the construction of the construct servatory, where observations by day and night are registered and transmitted at stated periods to the proper authorities in St. Petersburg. There is also a museum, containing a good col-lection of minerals and a few Siberian animals, birds, and antiquities. The market at Barnaul is well supplied with provisions, by the peasants from neighboring villages, and the price of food is in general very cheap, but European wares are sold at extravagant prices. The society is superior to that of any other town in Siberia; there are a few ladies who play the piano-forte, and during the winter, after the re-turn of the young officers from the mountains, even concerts and balls are attempted. A few results were resident to proceed to the wealthy merchants reside here to prosecute the trade in furs. Though the smelting of silver is an unhealthy occupation, the fumes which rise from the furnaces giving the workmen the lead colic, yet the men here who are engaged in the open air enjoy excellent health, equalling Europeans in robustness and hardiness. The workmen live in small and neat wooden cottages, and nearly all the peasants keep cows and horses. There are about 64,000 people, principally miners, under the direction of the chief of the mines, who resides in Barnaul. (See Atkinson's "Oriental and Western Siberia," London, 1858.)

BARNAVE, Antoine Pierre Joseph Marra, a French revolutionist, born at Grenoble, Oct. 22, 1761, guillotined at Paris, Nov. 30, 1798. He was the son of a lawver, and was wealthy merchants reside here to prosecute the

Oct. 22, 1761, guillotined at Paris, Nov. 30, 1798. He was the son of a lawyer, and was educated for the same profession. He early manifested a chivalrous and impetuous character, and cultivated elegance of dress and manners, combined with a disposition to reflection and order. At the age of 22 he was chosen by the bar of Grenoble to pronounce a discourse at the closing of the parliament; his subject was the "Division of Political Powers." He distinguished himself in 1788 by a pamphlet against certain arbitrary measures of the king; and a few months after, at the age of 28, w elected as a deputy of the third estate in the states general which met at Versailles, May 4, 1789. Here his talent, energy, and eloquence gave him a prominent position. He supported the movement for a national assembly; the formation of the national guard; the abolition of all feudal privileges; the declaration of the rights of man; the secularization of the oburch estates; the emancipation of the Jews; the

abolition of religious orders; the abolition of negro slavery; and opposed the absolute veto of the king, the liberty of taking office by members of the national assembly, and the conferring on the king the right of making peace and war. On the last two questions he separated from Mirabeau. In Oct. 1790, he was made president of the assembly. On May was made president of the assembly. 11, 1791, modifying his former colonial policy, he proposed that no change should be made in regard to slavery without the consent of the planters; he was opposed by Robespierre, planters; he was opposed by Robespierre, Sieyès, and Grégoire, and defeated. On the flight of the royal family and their arrest at Varennes, he was sent with Latour-Maubourg and Pétion to bring back the captives to Paris. From the date of this event he was totally changed. He became the advocate of the king and queen, and maintained constant relations with the latter, endeavoring to bring them into unison with the constitutional party in the assembly. He now defended the idea of the inviolability of the royal person, opposed the proposition to give reddiers the right of deponying their officers. soldiers the right of denouncing their officers, spoke in behalf of priests who denied the authority of the assembly, and moved the order of the day on the question of the right of the assembly to dismiss the ministers. With this change in him the public favor disappeared, while he could exercise no effective influence on the course of the court. He accordingly retired to Grenoble in Jan. 1792, and devoted retired to Grenoble in Jan. 1792, and devoted himself to political philosophy and literature until Aug. 29, when he was arrested on account of a pamphlet found in the king's cabinet. He was kept 10 months in prison at Grenoble; was transferred to Paris, Nov. 3, 1793, and was tried before the revolutionary tribunal Nov. 28, and guillotined 2 days after, aged only 32. His last words to the people about the scaffold were: "Behold the reward for all that I have done for liberty." A statue was erected to done for liberty." A statue was erected to him in the senate house under the consulate, but on the restoration of the Bourbons it was removed. His works have been collected by M. Bérenger (de la Drôme), and published at volumes.

Paris in 4 volumes.

BARNEGAT, a post town of Union township, in the south part of Ocean county, N. J.;

pop. 650. It lies on Double creek, near the pop. 650. It lies on Double creek, near uncinlet of that name, 1 mile from Barnegat bay. It has fine sea-bathing, and an abundance of wild fowl.—Barnegat Bay, on the east border of Ocean county, N. J., extends north from Barnegat inlet to the mouth of Metetecunk river, is 28 miles in length, and from 1 to 4 in breadth. Motetecunk, Tom's, and Forked rivers, and Kettle and Cedar creeks, discharge into it. Squan beach and Island beach, strips of sandy land from a quarter of a mile to a mile in width, separate it from the ocean. Its entrance is about a mile wide. about a mile wide.

BARNES, Albert, a Presbyterian clergy-man of Philadelphia, born in Rome, N. Y., Dec. 1, 1798. His father was a tanner, and until he was 17 years of age, he was employed in the

of Utrecht, at Amerafoort, either in 1547 or 1549, beheaded May 18, 1619. The United Provinces having revolted against the tyranny of Spain, Barneveldt eagerly embraced the popular cause, and during his whole life proved, by word and deed, his devotion to liberty. His eminent talents were soon recognized, and he was scarce 20 years of age when he was chosen to the office of counsellor and pensionary of Rotterdam, and served also a short time in the army as a volunteer. On the failure of the the army as a volunteer. On the failure of the negotiations between the United Provinces and the kingdom of France, for the surrender of the sovereignty of the Dutch states to the French monarch, it was deemed expedient to despatch an embassy to Elizabeth of England, whose displeasure the states had reason to fear on account of the proposals to her rival, Henry. Barneveldt was one of the principal members of this embassy, sent in 1585. trary to expectation they were graciously re-ceived, and although Elizabeth for wise reasons declined the union of the two countries, she promised never to forsake the provinces, and to support them while her life should last. Waiving the offered sovereignty for the present, she consented to appoint a governor-general of the United Provinces in her own name, and to send an army of 5,000 foot and 1,000 horse into the Netherlands. As a security for the payment of her necessary expenses, English garrisons were to be admitted into the towns of garrisons were to be admitted into the towns or Flushing, Rammekens, and Briel, and into 2 fortresses in the Holland province, until the debt was paid. Other conditions were added, placing much power in Elizabeth's hands, and making the sovereignty available whenever she chose to accept it. Very shortly after the treaty was signed, Dudley, earl of Leicester, was appointed governor-general, a man whose reputation for public affairs was contemptible, and his private life one of the worst character. The knowledge which Barneveldt had obtained of him during his visit to England, no doubt prompted him to urgo the states of Holland to confirm the authority of the young prince, Maurice, as stadtholder of that province and Zealand, before the arrival of Leicester. His suspicions of the earl proved perfectly correct, and the unscrupulous conduct of Leicester soon drew down a remonstrance from the states, which had the effect of disgusting and causing him to return to England in little more than a year after his arrival in the Netherlands. Maurice of Nassau, son of the murdered William, prince of Orange, was soon declared governor-general in place of the earl, and on account of his youth the count of Hohenlohe was associated with him as lieutenant-general. Barneveldt had by this time been created advocate of Holland, but in the next year, during the discussions between Elizabeth and the states, growing out of Leicester's treatment, Barneveldt dreading his return, desired to resign his office, and was only induced to retain it by the urgent solicitations of the people. On the re-

turn of Leicester, incensed with Maurice for accepting the office of governor-general, and with Barnoveldt for supporting him, he formed the design of seizing and conveying them both to England. They received information of his to England. They received information of his purpose, and suddenly left the Hague for Delft. Leicester had still a powerful party left among the clergy, who, in a remonstrance presented in the name of all the ministers of Holland, admonished the states to preserve a good understanding with England and the earl. Barne-veldt soon answered this address by a cutting reply, saying that the states were very well able to accomplish their object without the assistance of the clergy, and sarcastically advising them to take care lest, under the cloakof religion, evilminded persons should endeavor to bring their rulers into odium with the people. In 1590 a plan for the surprise and capture of Breda, part of the hereditary estates of the late William of Orange, was submitted to Maurice, who referred the matter to Barneveldt. By him it was warmly seconded. On March 1, 68 soldiers embarked in a small vessel, being concepled in the hold and essenting the most cealed in the hold, and, escaping the most imminent danger of discovery, at midnight emerged from their hiding-place and surprised the garrison, while Maurice marched upon the town and took it. This brilliant achievement reflected the highest credit on all the parties conreflected the highest credit on all the parties connected with it; and Barneveldt, who had mainly contributed to its success by his aid and counsel, was presented with a rich gilt cup, on which a representation of the whole was chased. The remarkable military triumphs of Prince Maurice over the Spaniards and their great leader, the duke of Parma, now filled the hearts of the people with the most extravagant joy. The warlike operations of William of Orange had been uniformly unfortunate; those of his young son, on the contrary, were of such of his young son, on the contrary, were of such brilliant success, as to draw to him the attention of all Europe. The condition of the United Provinces was vastly changed for the better, and once more prosperity reigned in the land despite of the protracted war. The merits of Barneof the protracted war. The merits of Barneveldt in producing so happy a change from former miseries, should not be regarded as less than those of Maurice; from the time of his appointment to the advocacy of Holland, he had begun to acquire influence with the authorities and such religious was placed upon his ities, and such reliance was placed upon his judgment that he was enabled to induce the states to consent to all beneficial measures, and his diligence was unceasing in aiding the projects of Maurice, by supplying his armies with provisions, material, and ammunition. In the year 1600 Barneveldt first began to suspect the ambitious designs of Maurice, who he feared would, at no very distant time, make use of the surprise a pressure of greening pure bower than army as a means of grasping more power than was consistent with the liberties of his country; the Spaniards were now anxious for a suspension of hostilities, and Maurice was very unwilling to accede, while Barneveldt and other true patriots were exceedingly auxious for it, but only

When the war commenced between Great Britain and the American colonies, Barney was appointed master's mate in the sloop of war Hornet, and while recruiting for volun-teers, bore the first U. S. flag seen in Maryland. In 1775, the Hornet joined the fleet under Commodore Hopkins, and captured the town and fort of New Providence, one of the Bahama islands, bringing off a large number of cannon, dec. In 1776, Barney, scarce 17 years of age, was made lieutenant for his gallant conduct in the schooner Wasp, which captured the British brig Tender in Delaware bay. Soon after this he embarked in the Sachem, which captured an English brig after a severe action. The Sachem having taken other vessels, Barney was placed on board of one of them as prize master, and was captured by the Perseus of 20 guns, but soon exchanged at Charleston, S. O. In 1777 he joined the Virginia frigate, which was taken by the British, having run aground in getting to cea. He was again exchanged, and joined a privateer which sailed in Nov. 1778, for France, encountered the Rosebud letter of marque, and on her return took a valuable prize, arriving safely at Philadelphia in 1779, after an absence of 11 months. In 1780 he married a Miss Bedford, and shortly afterward, on his way to Baltimore, was robbed of the money he had Baltimore, was robbed of the money he had gained from prizes. He soon went on board the Baratoga, of 16 guns, Capt. Young, which fell in with the ship Charming Molly and 2 brigs, and took them. Barney headed the boarders thrown aboard the Molly, against a very superior force. He was placed on board of one of the prizes, but on the following day all 3 were retaken by the Intrepid, 74. The Saratoga escaped, and never having been heard of again, is supposed to have foundered at sea. Barney remained a prisoner in England for some time. is supposed to have foundered at sea. Barney remained a prisoner in England for some time, but at length fled, and arrived safely again in Philadelphia, in March, 1782. He was at once appointed to the command of the Hyder Ali, a small vessel of 16 guns, and encountering off the capes of the Delaware, the Gen. Monk, of 20 guns, took her after a hot fight of less than half an hour. For this brilliant achievement, he was voted a sword by the legislature of Penn, and appointed to the command of the Gen. Monk, which was purchased by order of congress, and sailed for France in Nov. 1782. He returned to Philadelphia with a large sum He returned to Philadelphia with a large sum of money lent by the French government, and the information that preliminaries of peace had been signed. In 1795 he was commission-ed as captain in the French service, but gave up his command in 1800, and returned home. On the declaration of war against Great Britain in 1812, he was appointed by Congress to the command of the flotilla which defended Chesacommand of the nothin which defended Chesa-peake bay. He also took part in the battle of Bladensburg, and was severely wounded. By the corporation of Washington he was voted a sword, and thanked by the legislature of Geor-gia. In 1818 he determined to emigrate to Kentucky, but on his way was taken ill and

died. He belonged to the old school of naval officers; he was rough and impetuous, but a thorough seaman, of indomitable courage, and possessing good principles and a kind heart.

BARNSLEY, or BARNESLEY, St. MARY. a market town of Yorkshire, England, 8 miles

market town of Yorkshire, England, 8 miles from Sheffield. It has a spacious market place, a free grammar school, a national school, a public library, and extensive manufactures of linen, yarn, and drills, a glass factory, iron foundery, needle and wire works, dyeing and coal works. Barnsley communicates with Wakefield and Leeds by the Barnsley canal, which connects the Calder and Don. Barnsley is believed to be very ancient. Near the town are the remains of the Monk Briton priory. Pop. 14,913.

mains of the Monk Briton priory. Pop. 14,913. BARNSTABLE, the most eastern county of Massachusetts; area 290 sq. m. It is composed of a peninsula and several islands, including Cape Cod, which extends northerly for a distance of 65 miles. The surface is level, the soil generally light and sandy. It exports large quantities of salt. The N. W. part of the county is crossed by the Cape Cod branch railway. It was organized in 1685, and was probably named from Barnstaple, a seaport town of England. In 1850, the productions of this county were 52,639 bushels of Indian corn, 34,756 of potatoes, 9,142 tons of hay, and 108,128 pounds of butter. There were numerous mills and factories, 72 churches, 5 newspaper offices, and 7,682 pupils attending public schools; pop. in 1855, 35,442.—Its capital of the same name is a seaport town, and seat of justice, on the south side of Barnstable bay. It has a bank, a savings institution, an insurance company, and a weekly newspaper. The inhabitants are mostly employed in the fisheries or in the coast trade. The aggregate tonnage of the shipping, June 30, 1854, was 7,515 tons registered, and 74,443 enrolled and licensed. During that year, 19 schooners, with an aggregate burden of 2,063 tons, were admeasured. It is in daily and frequent communication with Boston. Pop. in 1855, 4,998.

BARNSTAPLE, a parliamentary and municipal borough, seaport, market town, and parish of England, county of Devon, on the

BARNSTAPLE, a parliamentary and municipal borough, seaport, market town, and parish of England, county of Devon, on the Taw, 6 miles from its discharge into Barnstaple bay. It is believed to have been founded by King Athelstan. It is well built, has an ancient church, a grammar school, where Bishop Jewell and the poet Gay were taught. It has a mechanics' institute, tanneries, potteries, and iron founderies, paper mill and manufactories of woollen cloths, cotton lace, and nets. It sends two members to the house of commons. The beauty of the situation, its salubrity, and the comparative cheapness of living, have operated to increase its inhabitants. The streets are well paved and lighted with gas.

BARNUM, Phineas Taxlor, an American

BARNUM, PHINEAS TAYLOR, an American speculator, born at Bethel, Conn., July 5, 1810. In his early youth he displayed a fondness for practical jokes and a constant desire for trade, which foreshadowed the grander speculations

having built himself an extensive villa at Bridgeport, he retired from business, and soon published his life, giving a full account of the various enterprises in which he had been engaged.

He also devoted much of his time to farming,
and made many improvements in Bridgeport.

During the year 1855, a celebrated "baby
show" took place at the American museum,
from which was also realized a large amount of
money. Mr. Barnum, however, having made
many unfortunate investments, found himself
at the end of the year greatly involved; and
the failure of an extensive manufacturing company, for which he had become responsible,
brought his fortunes again to the lowest ebb.
He finally succeeded, in the latter part of 1857,
in compounding with his creditors, and in re-

in compounding with his creditors, and in regaining the management of his own affairs.

BARNWELL, a district in the S. W. part of Bouth Carolina, bordering on the Savannah river. It has an area of 1,550 sq. m. The surface is hilly, but not rugged; the soil productive, in the tracts contiguous to the rivers. The county is separated from Georgia by the Savannah river, which is navigable for steamboats. The district is crossed by the South Carolina railway, which extends to Charleston. The staples are Indian corn, cotton, potatoes, and live stock. In 1850 the productions amounted to 10,188 bales of cotton, 839,629 bushels of Indian corn, and 168,664 of sweet potatoes. There were 56 churches, and 450 pupils attending public schools. Pop. in 1850, 26,608, of whom 12,600 were free, and 14,008 slaves.—BARNWELL COURT HOUSE is the capital of Barnwell district. It is situated on the Salkehatchie river, 55 miles directly S. S. W. from Columbia. It is the entrepot for a productive cotton district. It contains the public buildings of the district and several churches.

RARO several churches.

BARO, a river of Africa, rises S. W. of Abyssinia, lat. 8° N., in an extensive plateau, where, also, begin the tributaries of the White Nile. The natives represent it as a very large river, the banks of which are inhabited by Shankalahs, and frequented by herds of elephants.

BAROACH (ancient Barygaza), capital of a district of the same name, on the Nerbudda, 86 miles N. of Surat; pop. 83,000. It exports cotton, grain, and seeds to Bombay and Surat. It contains a Braminical hospital for sick animals, into which even insects are received. Area of the district, 1.351 sq. m.; pop. 239.567.

mals, into which even insects are received. Area of the district, 1,851 sq. m.; pop. 289,587. BAROCCIO, or BAROCCI, FIORI FEDERIGO, a painter of the Roman school, born at Urbino, in 1528, died there, Sept. 31, 1612. In his youth he studied the works of Titian, and, in 1549, went to Rome to see those of Raphael. In 1560 he was intrusted by Pius IV. with the decoration of the Belvedere palace, and some of the Roman painters, envious of his genius, invited him to a banquet, where they gave him poison. For 4 years he was not able to touch his pencil, and afterward could only work 2 hours a day. His later pictures are in the style

of Correggio. His "Last Supper," "Descent from the Cross," "St. Francis stigmatized," "Christ and Magdalen," and "Annunciation," are among his best productions.

BAROCHE, PIERRE JULES, French jurist and statesman, born at Paris, Nov. 8, 1802. As early as 1823 he became a successful advocate. He defended Colombian appared with being an

BAROCHE, PIERRE JULES, French jurist and statesman, born at Paris, Nov. 8, 1802. As early as 1823 he became a successful advocate. He defended Colombier, charged with being an accomplice of Quénisset, the would-be assassin of the duke of Aumale, and Despans-Cubières, indicted for taking part with Teste and others in certain corrupt transactions. In 1847 he was sent by the department of Charente to the chamber of deputies, where, on Feb. 23, 1848, he signed, with several others, the act of impeachment, presented by Odilon Barrot, against the Guizot cabinet, for illegally prohibiting the reform banquet in the 12th arrondissement of Paris. Being elected a member of the constituent assembly, he was most emphatic in his declarations of fealty to the republic, but soon leaned toward the Bonapartists. Reelected to the legislative assembly, in May, 1849, he was made home secretary, March 15, 1850, and, a few days later, changed this post for that of secretary for foreign affairs. He favored the coup d'état of Dec. 2, and, on the establishment of the empire, was appointed to the vice-presidency of the council of state, which he still holds. The government of Napoleon III. has few more devoted adherents. As one of his ministers of state, his name figures among the privy council, nominated by imperial decree of Feb. 1, 1858, for the purpose of forming a council of regency, in the contingency of the emperor's death.

BARODA, a city of Hindostan, pop. 100,-000, 78 miles N. N. E. of Surat. It is double-walled and head Agracious streets which towards.

BARODA, a city of Hindostan, pop. 100,-000, 78 miles N. N. E. of Surat. It is doublewalled, and has 4 spacious streets, which terminate centrally in a market place. It has been called one of the "richest cities, in point of moneyed and commercial capital, in India."

BAROMETER (Gr. Bapos, weight, and perpos, a measure), an instrument used for determining the pressure of the atmosphere. By the variations of this pressure at different heights, it is also applied to determine differences of altitude. The doctrine of a plenum in natural philosophy, and the abhorrence of nature for a vacuum, had long been too fully established in the old systems, for the possibility of producing a vacuum to be admitted, when Galileo, toward the close of his life, was applied to, to explain why water could not be raised in a vacuum pump more than about 32 feet. Whether he succeeded in comprehending the true solution is somewhat doubtful, but at any rate, he was led to admit, that nature's abhorrence of a vacuum did not exceed the pressure of a column of water 32 feet high. Subsequently, as mentioned in the last of his dialogues, he dovised an experiment to ascertain the power or virta of a vacuum. This consisted in applying weights to a piston closely fitting in a smooth tube, placed in an inverted position, to see how much would draw it down, and previously to his death, which

ed to his pupil, Torricelli, to continue these investigations. The decisive experiment, made by Torricelli, and called after him the Torri-Torricelli, to continue these inby forricelli, and called after him the Torricellian experiment, was in ascertaining the length of a column of mercury, sustained by the same cause, whatever it might be, which supported the column of water. The weight of the mercury being about 14 times greater than that of the water, the height of the 2 columns, he reasoned should be proportional to their weight. soned, should be proportional to their weights. Filling a glass tube, 3 feet or more in length, with mercury, and closing the open end with his finger, he introduced this by inverting the tube, under the surface of mercury in a basin. Over the mercury in the basin was also a quantity of water. On removing the finger, the mercury in the tube sunk down, and after oscillating, stood at about 28 inches above the surface of that in the vessel, leaving in the upper end a vacant space. Raising the tube, so that its lower end terminated in the water, which occupied the upper part of the basin, the mercury in the tube all ran out, and the water rushed up filling the whole tube. Torricelli rushed up filling the whole tube. Torricelli continued his experiments, and discovered the fluctuations in the height of the column of mercury caused by the changes of the weather; and in 1645, an account of his observations was published; but he soon after died, before his great discovery was fully completed.—The subgreat discovery was fully completed ject was taken up with great zeal by Pascal at Rouen, in France. Although at this time not quite 24 years of age, he was already distinguish-ed for his original philosophical investigations. In 1646 he performed a number of experiments, with tubes of glass, some of them 50 feet in length. These led him to the conclusion, slowly and cautiously arrived at, that an absolute vacuum may be formed. It occurred to Passel their if its ware the experiments. vacuum may be formed. It occurred to Fas-cal that if it were the atmospheric pressure which supported the column of mercury or water, the height of the column should be lessened, as the pressure is reduced by as-cending to greater elevations above the surface. He communicated his views to his brother-inlaw, Périer, who lived at Clermont, in Auvergne. near the high conical mountain of Puy de I with the request that he we upon this elevation. Tl ed, however, till Sept. 10, time, provided with mercuri ed in the garden of a mc part of Clermont, the height as a cury stood in 2 tubes, which we inches and 3³ lines. Leaving on meters to be noticed in his absence Leaving onmeters to be noticed in his absence, no w other up the mountain, and at the summer the surprise and delight of himself and of the who accompanied him, he found the height of the column was only 23 inches and 2 lines. lower points, he noticed, as he descended, the necrcury rose in the tube, and at the ham occupied the same space in the tube. This was the first observation ever was the first observation ever the different pressures of the

happened not long after in 1642, he recommend-

ferent elevations. Périer ment upon the high of Cler Pascal on learning the result, he then was, made similar ob the top of a high house and church. Satisfied with the result. tc d church. Satisfied with the result posed this process for determine -Attention be of elevation. ed to the variations in the hei curial column caused by the at-changes. Otto Guericke, an ingu-wealthy burgomaster of Magdeburg, a gigantic barometer for indicating the the weather. lt was a glass tub with water, 30 feet in length, placed wall of his house, and rising above th lower end terminating in a cistern of withe upper part, which was of larger dim than the rest, was placed the figure of large enough to be visible from the stre large enough to be vasced from the water this figure, floating upon food of the water, appeared in fall at face of the water, appeared in full the roof; but as the fluid subsided change of weather, the manikin change of weather, the manikin wi have excited great admiration ame itants of Magdeburg, but mingle doubts, whether the worthy burge not upon too intimate terms with the -From the original inv barometer to the present time, the most distinguished men of sci exercised in improving its constructions modifications of its form have ed, and yet those now most appealightly varied from the straight of Torricelli, and the siphon tube by him. The liquid selected by him red to all others by reason of the reconstraint of the result o of it occupying so little space. It is ble to be volatilized by slight eleval perature, and thus fill with its vape space in the top of the tube. If form of the instrument is that cells become the college of the tube. barometer. The straight terminates at its foot in a ci By the rising and falling of the E

tube, the level of that in the cisturn most class hot give the height of the mercury, the size hot give the height of the colors, and by the atmospheric pressure, and a mis made for the error than harden your which is reduced according to the of the cistern is made groups of the tube. There are several modeling this correction; one is in replaced movable, and bringing its term of the surface of the mercury is n; another in making the scale field of ing the mercury to its acro point is error, which is made to pressent a large that forms the lower part is large.

has, if the area of the cistern is 20 times that e tube, the inches are made one-twentieth than their true measure. The second method is the most generally adopted in the best instru-ments. Troughton's portable barometer is of this construction. Its graduated scale com-mences at 15 inches above the neutral point, and is continued as high as 83 inches means of a sliding vernier, this scale may be read to the Total of an inch. Though various contrivances have been suggested for taking the place of these minute divisions and vernier readings, as by enlarging the scale, &c., so substitute has yet been found to give such good results. By a skilful observer they can be read with great minuteness, and much within the limits of accuracy of the instrument in other respects. The barometer adopted by the Smithsonian institution is that of Mr. James Green, of New York. A full description of this, with the drawings that are required to render it intelligible, is published in the 10th annual report of the institution. In the same article are also directions for the use of the instrument; and in a preceding part of the same report are more detailed directions for making report are more detailed directions for making barometrical observations. Green's barometer is remarkable for the manner of constructing the cistern of boxwood from rings all made from the centres of the wood and concentric with its growth. They are worked thin; then the pores of the wood are deprived of air by exhaustion, and filled with shellac. The joints the pores of the wood are deprived of air by exhaustion, and filled with shellac. The joints are fitted with perfect accuracy without cement, the use of which, or of iron, is a defect in other cistern barometers. A method is introduced of correcting for capillarity by making the scale movable, so that its 30 inch mark may be set to coincide with a fixed mark upon the tube, which is exactly 30 inches above the tip of the ivery point to which the surface of the mercury is always to be brought before making an observation. The instrument is designed for servation. vice as a mountain barometer as well as for serstationary uses. The siphon barometer of Gay-Lassac, improved by Bunten, of Paris, is a very portable and convenient form for the use of the scientific traveller. The name siphon is applied to barometers of which the lower and of the tube is turned up to form a short sum which constitutes the cistern and may be same, which constitutes the cistern, and may be left open for the air to press directly upon the marcury. A capillary opening in this short arm, which is otherwise tight, answers the same purpose as if the whole were open. The ce of the mercury in the lower arm corresponds to the zero point in the cistern barometer, ad as this fluctuates as well as that of the longer limb, it is necessary to use a vernier at each extremity of the column, and take the 2 readings in order to determine the height of the column. If the 2 limbs were made of pre-cisely the same diameter, the reading of one and doubling this would give a correct result. In Gay-Lussac's barometer the tube at each ex-

tremity is of the usual diameter, but in the elbow, and along the lower part of the long limb, it is drawn down to a very small bore. The instrument is thus made to occupy very little space, so that the glass is enclosed in a brass cylinder of the size of an ordinary cane. An open slit at each end of the brass tube affords an opportunity of reading the verniers, the indexes of which traverse up and down these openings by means of toothed wheels which run in a rack made upon the edge of the brass. The improvement introduced by Bunten is in dividing the long limb into 2 parts, the upper which is drawn down at its lower end to a small opening and inserted into the lower portion, to which it is attached, making again one tube. The object of this conical projection of the upper into the lower part is to form a or trap to catch any air, which may chamber be accidentally introduced through the short branch, and thus intercept its passage to the vacuum, where by its elasticity it would counterbalance to some extent the pressure of the external air. As the barometer is inverted the air lodged in the air-trap escapes through the short branch by which it entered.—A barometer is, in common use, provided with an index which turns around upon a dial, and points to figures which indicate the height of points to figures which indicate the height of the mercury, as also to words descriptive of the state of the weather, as "cloudy," "fair," "rainy," &c. The index is made to move by means of a string, which passes around its axle, and has at each end a weight attached, the larger one resting upon the surface of the mer-cury in the shorter limb of a siphon barome-ter. This is open to the objection of this ba-rometer, giving in the reading of one limb but half the actual effect; but as the length of the index is several times greater than the radius index is several times greater than the radius of the pulley upon its axis, this objection is really more than counterbalanced. Still, little confidence is placed in its accuracy in marking the true variations of the column, and none whatever in its indications of the state of the weather, for the barometer does not designate by the absolute height of the mercury, but by its rising or falling, the kind of weather we may expect, and this change is not indicated by the index. The instrument is usually described, among other barometers, as a toy or a handsome piece of furniture.—In filling a tube handsome piece of furniture.—In filling a tube with mercury, particular care is required, that no air be introduced, which, by occupying the vacuum, will counterbalance in part the pres-sure of the external air, and cause incorrect results. The mercury, too, is required to be free from mixtures of other metals, and of its own oxide. It is introduced into the tube in small quantities at a time, and boiled as each portion is added, the heat being applied to that part of the tube containing the mercury last intro-duced. By boiling the mercury in the tube in vacuo, the air and moisture are most effectually expelled. On inverting the tube when properly filled, its lower end being kept in a basin of

eter at the immediate approach of most terrihurricanes, of which no other notice was The best rules for prognosticating the state he weather from the barometer are those ed by Dr. Brande from the "Saturday azine:" 1. After a continuance of dry ther, if the barometer begins to fall slowly steadily rain will certainly ensue; but if fine weather has been of long duration, the cury may fall for 2 or 3 days before any eptible change takes place, and the longer elapses before the rain comes, the longer wet weather is likely to last. 2. Converse, after a great deal of wet weather, with barometer below its mean height, the merbegins to rise steadily and slowly, fine her will come, though 2 or 3 wet days first clapse; and the fine weather will be e permanent in proportion to the length of that passes before the perceptible change s place. 3. On either of the 2 foregoing positions, if the change immediately ensues he motion of the mercury the change will be permanent. 4. If the barometer rise by and steadily for 2 days together or more, weather will come, though for those 2 days ay rain incessantly, and the reverse; but if barometer rise for 2 days or more during and then, on the appearance of fine weath-egins to fall again, that fine weather will ery transient, and vice rersa. 5. A sudden of the barometer in the spring or autumn rates wind; in the summer, during very weather, a thunder-storm may be expected; inter, a sudden fall, after frost of some conance, indicates a change of wind, with thaw rain; but in a continued frost a rise of the cury indicates approaching snow. 6. No I fluctuations of the barometer are to be inreted as indicating either dry or wet weather by continuance; it is only the slow, steady continued rise or fall that is to be attended i this respect. 7. A rise in the mercury in the autumn, after a long continuance of and windy weather, generally indicates a ige of wind to the northern quarters and approach of frost. After all, however, no of rules can have a general application. a district has its own peculiar atmospherical litions, and these being understood by longinued observations, the variations of the meter may then be observed with some co of confidence.—Barometers have been tructed with particular reference to use at of which those of Mr. Carey of London are h used. The tube is about 27 inches long, a bore scarcely exceeding $\frac{1}{3\pi}$ of an inch. pper end terminates in a cylinder 4 or 5 es high, nearly $\frac{3}{10}$ of an inch in diameter. suspended by a spring and gimbals near top, at a point determined in each instru-t by actual trial. The object of the larger above the capillary tube is to prevent a i flow of the mercury, which might be ed by the motion of the ship, and break the by its striking against the top. The form

is liable to the objection that the rise and fall of is liable to the objection that the rise and fall of the fluid is necessarily very slow, and several minutes may clapse before a sudden change of atmospheric pressure is indicated.—The cause of the shifting pressure of the atmosphere is to be looked for in the operations of the winds which may be blowing in distant localities. By drawing the air away from any point, the pressure is here, to some extent, taken off, which must soon be filled by a rush of air from other sources. Where the winds are equable, like the trade-winds of the tropics, the movements of the barometer partake of the same regularity. Humboldt, in his researches in the equatorial regions of South America, was greatly struck by the uni-formity of the motion of the barometer in the different periods of the day. From 4 o'clock in the morning till 10 the mercury generally rises, and then falls until 4 in the afternoon. It then rises again till 10 at night, after which it falls till 4 in the morning. In temperate northern latitudes the barometer generally stands higher at 9 A. M. and 9 P. M. and lower at 3 A. M. and 3 P. M. than at other hours. Professor A. M. and 3 P. M. than at other hours. Professor Daniell recommends these hours, as the best times for consulting the barometer as a weather-glass. Its rise between 9 A. M. and 3 P. M. indicates fine weather. A fall from this time to 9 P. M., is likely to be followed by rain. Periodic changes of pressure are observed to occur at certain periods of the year. These may be seen, by consulting a manual of Mr. Belville of the royal observatory, published in 1849, in seen, by consulting a manual of Mr. Belville of the royal observatory, published in 1849, in which are recorded the mean heights of the barometer at noon for Greenwich, from the year 1815 to 1844. By these tables it appears that "the greatest daily mean pressure for the year occurs about Jan. 9; the minimum daily mean depression toward the end of November. It is a remarkable coincidence, that the lowest daily mean temperature for 30 years occurs on Jan. 8 and 9, and the daily mean temperature for November, rises suddenly 4° in the last few days in November." The mean annual pressure for noon at Greenwich is 29.872 inches. In 38 for noon at Greenwich is 29.872 inches. years between 1811 and 1848, the maximum elevation occurred in 1825, being 30.89 inches; in 1821, it reached 30.82 inches; in 1835, 30.84 inches, and in February, 1849, 30.86 inches. On Dec. 25, 1821, the greatest depression occurred of 27.89 inches. A heavy rain and south-east wind had preceded this, and a gale from the north-west followed. In 1814, the greatest depression was 28.21 inches. This was at the close of the great frost, and was preceded also by much rain and a stormy wind from S. S. E. The barometer has been re-corded at a height of over 31 inches at Cambridge, Mass., at the temperature then existing.

—Lieut. Maury, of the national observatory,
Washington, in a communication to the secretary of the U. S. navy, dated Feb. 10, 1858,
mentions the discovery of the numerical relation between the force of the wind and the diftion between the force of the wind and the difference of simultaneous barometric pressures at certain stations, by Professor Bays Ballot, of

rection of the line of strike, to know by the infallible rise or fall of the index hand to the

and preliminary location lines, and pronounces emphatically in its favor. Mr. J. P. Lesley, formerly of the Pennsylvania geological survey, has used aneroids of different sizes and make, in elaborate topographical surveys of western Pennsylvania, for the maps of the Pennsylvania railroad, and in all his geological surveys, for a number of years, and says in his "Manual of Coal and its Topography," p. 199, that he gives it his unqualified approbation and affection. It requires to be carefully handled, but the rules to be observed are few. "No observato be observed are few. "No observations more than 5 minutes apart are to be compared without repetition; no observation is to be made at a station until time has been allowed the instrument to come to rest, especially when an ascent is changed to a descent, and vice versa; all observations immediately fol-lowed by a thunder storm are to be held of subordinate value; all lines of level run with the aneroid are to be made to pass across from one to the other and tie at both ends with two parallel lines of spirit levelling." These rules observed, the results of aneroid practice with the best and latest instruments are good; for practical topography unexceptionable. No instrument, however, that he has used has been actually self-compensating for temperature. Each instrument requires a table of compensations, and what is of more moment, a separate table made out by careful experiment with and for itself; the tables published in Dent's pamphate and also where was practically account. let and elsewhere are practically worthless. Some instruments are nearly or quite self-compensating within ordinary working limits, say 2,000 feet, while others require an allowance of even 5 feet vertical for every degree the thermometer attached to the dial of the aneroid rises or falls. The observer must therefore learn to know his instrument well, or he can do learn to know his instrument well, or he can do nothing with it on an extended survey. It is evident from this that an aneroid may work very well one day and fail the next. This has condemned the instrument with most field workers; but the fact only calls for greater attention to the laws of its perturbations. It is proper to provide the one instrument carried along the line of a survey, with another mate instrument, well adjusted to it and fixed at a near station, and observed by an additional instrument, well adjusted to it and fixed at a near station, and observed by an additional member of the party, periodically, at short intervals throughout the day. With this precaution, levelling with a good aneroid will equal for all practical purposes, in the long run of an extensive survey, levelling with the ordinary spirit level. Of course the aneroid can be of no service in the high goods of a coast or ordinary service in the high geodesy of a coast or ordnance survey. In civil engineering, on the contrary, up to the final location line, it is reasonable to expect from the testimony given in, that it will almost replace the spirit level. In geological examinations it is invaluable. The geologist in tracing outcrops through the woods and where the rocks are entirely concealed, across ravines, and over the shoulders of hills, in a broken country, has only to discover and take the di-

level of the point of his departure, precisely when he is passing up or down, over the outcrop of his bed. In countries where the rocks are nearly or quite horizontal, in fact over half the United States, the ancroid is to the geologist a whole corps of assistants, and the work of a week can, with its help, often be done in a day. There is an external index to assist the memory of the house observer from one observer ation to another, but this is of no use in the vation to another, but this is of no use in the field, and should be removed, as it is always in the way, and occasionally causes the breakage of the glass. The aneroid should always be observed by the field worker in its box raised horizontally on the tips of the fingers and thumb of the left hand to a level with the eye, the point of the index toward the eye. The eye then will range above the index and proeye then will range above the index and pro-ject its point vertically upon the scale. These precautions are needful, first, because any strain upon the outer brass case (as made by the pres-ent patentee) acts mischievously upon the machinery within, and can alter the reading of vertical heights 50 or even in some instruments vertical heights 50 or even in some instruments 100 feet; and secondly, because the index is usually adjusted so rudely through the dial plate that a near approach of its point to the scale is impossible, and therefore the angle at which the reading is made may give a large error of perspective. A little practice will obviate both these difficulties; but it is to be hoped that on the expiration of the patent the construction of the instrument will be greatly improved without a material enhancement of its price, and leave little to be desired in the way of accuracy in its practical manipulation.—The thermometric compensation is more difficult to racy in its practical manipulation.—The thermometric compensation is more difficult to make, but when the scale is once made out for the given instrument, the only rule left to obve is this: in summer heat your instrument, serve is this: in summer heat your instrument, and in winter cool it slowly to about the temperature of the air you intend to work in; and during work, do not expose it alternately to the sun and to moist cool shades; for the thermometer on the dial plate shows a change before the machinery within feels it. For this reason it is prudent to carry the instrument in its lined wooden box, and always shut.

BAROMETRICAL MEASUREMENTS. By the perfection now attained in the construction

the perfection now attained in the construction the perfection now attained in the construction of barometers, and the skill applied to their use by the best observers, differences of elevation may be ascertained by them with greater accuracy than by the most carefully conducted triangulation—at least, in places where the elevations are great and difficult of access. High summits, covered with shifting clouds, involve uncertain errors, arising from constantly varying refraction; and inaccessible mountains can only be observed under very small angles from the termini of a carefully constructed base line, the termini of a carefully constructed base line, in some smooth district, at a considerable distance from them. A comparison of results obtained by both methods is generally in favor

ward assumed the titles of counts and princes. In more modern times in both France and Germany a baron is a nobleman next in rank to a count. In England the original barons of the realm were those who held lands by tenure of suit and service to the king. They were bound to attend the king in his warlike expeditions, to supply money contributions on particular to attend the king in his warnike expeditions, to supply money contributions on particular occasions, to furnish a military contingent proportioned to the extent of their fiefs, and to attend the king's courts. The barons were originally the great tenants of the crown, but various circumstances having increased the numbers of the barons holding direct from the sovereign, a practice arose, which be-came established about the time of Edward I., of summoning individuals by writ to the great councils. The barony by tenure and by writ being heritable, the inheritance of the titles became complicated by the devolution of the estates to female descendants, who, though incapable of holding titles, were nevertheless capable of holding titles, were never his, a capable of transmitting them. From this, a practice arose of creating barons by patent, imiting the succession to heirs male. All moblemen were originally the king's barons, and inter pares, the question of precedence was one not always easy of settlement. The creation of dignities superior to those of barons—dukes, earls, marquises, and viscounts— to which some of the greater barons were raised, settled the question in part, and the antiquity of the particular title determined the precedence among those of equal dignity. Some other persons in England, as for instance the citizens of York and London, were styled barons, whose titles were drawn, perhaps, from the relation of suit and service in which they stood to the crown. The judges of the court of exchequer, a court instituted immediately

after the conquest, are still styled barons.

BARON, MICHEL BOYBON, a French actor, born at Paris, Oct. 8, 1653, died Dec. 22, 1729. His mother, one of the most beautiful women of her time, acquired fame as an ambulating actress, and made such an impression upon the heart of his father, that the good man, who was a tanner by trade, not only married the fair lady, but also left his hides betook himself to the stage. Subsequently he betook himself to the stage. Subsequently he found employment at the royal theatre of the hôtel de Bourgogne at Paris, where young Baron, who was a remarkably handsome fellow, soon attracted the attention and enlisted the sympathy of Molière, who engaged him for his theatre. He not only excelled in the tragic parts of Racine, but also in the humorous characters of his friend, Molière. In 1691 ha left the stage with the intention of passing ous characters of his friend, Molière. In 1691 he left the stage with the intention of passing the rest of his days in the seclusion and the enjoyments of privato life. For 28 years he withstood the temptations of the stage, but finally, in 1720, in his 67th year, he made his reappearance upon the boards; was received with the utmost enthusiasm, and, like Mile. Mars, of later days, played youthful

Like Molière, he was taken ill characters. characters. Like Molière, he was taken ill during one of his performances, and died almost before the echocs of the applause from the audience had ceased. His numerous comedies were collected in 1759, in 3 volumes.

BARON AND FEME, the Norman-French law term used to signify man and wife in the early English law writers.

BARON ACE is the collective term for the

BARONAGE is the collective term for the ancient nobility of England, in which sense it has been used by Sir William Dugdale in his

has been used by Sir william.

great antiquarian work.

BARONET, an English title of honor. The baronet is the next degree, in point of preceded as a baron. But the gulf between is a peer of dence, below a baron. But the gulf between them is very broad. The baron is a peer of the realm, a hereditary legislator; the baronet is a commoner. The dignity dates from James I., and, according to Blackstone, was instituted by that monarch in order to raise a competent sum for the reduction of the province of Ulster, in Ireland, for which reason all baronets have the arms of Ulster superadded to their family coat. The candidates for the honor were required to be of gentle blood, and of adequate means to support the dignity; and it was promised that the number should not exceed 200, and that lapses by death should not be filled up. The promise on the part of the crown was soon abandoned, and this constitutes a standing grievance of the order. The old county baronets of England are usually held in much respect as representatives of ancient families, and of equal respectability in point of ancestry with the most noble houses. Sir Egerton Brydges traced his descent to Charlemagne. The baronets of Nova Scotia and of Ireland were created

for similar special purposes.

BARONI, Adriana Bashiro, an Italian lady of the 17th century, celebrated for her beauty. Her praises were sung by most of the poets of her time, and the verses which she had inspired were in 1623 collected and published in a her time, and the verses which she had inspired were, in 1623, collected and published in a large volume, under the title of the "Theatre of Adriana's Glory." Her daughter, Loonora, who was a singer and composer, possessed equal beauty, wit, and accomplishments, and met with equal admiration, her perfections

met with equal admiration, her perfections being portrayed in a collection of pieces written in her praise, in 5 different languages.

BARONIUS, CESARE, an Italian ecclesiastic, born at Sora, in Naples, Aug. 30, 1538, died June 30, 1607. Having become a priest, he received the appointment of confessor and librarian to Clement VIII., and was soon after elevated to the rank of cardinal. In 1605, on the election of Clem-ent's successor to the pontifical chair, he received 31 votes, and would have been chosen but for the opposition of the Spanish party, to whom he had given offence by denying the claims of the king of Spain to the sovereignty of Naples. His works are numerous and valuable; the most important being 12 volumes of ecclesiasti-cal annals.

BARONY, the tenure upon which lands are held direct from the crown, or the lands or

of 250 acres, one of the most charming re-sults on a grand scale of the art of landscape gardening in existence, where the stateliness of Asiatic proportions is joined to the picturesque-ness of European design, and all the various charms of an undulating country artificially imparted to the natural flatness which charac-terizes the cantonments. Here is the governor general's famous collection of Indian zoology; and a stud of the largest elephants is main-tained, principally for the recreation of the guests who from time to time are entertained at the vice-regal suburban residence. Barrackpor is a favorite resort of all classes of people from Calcutta. Along the broad, embowered avenue of 16 miles, a various multitude of natives and foreigners are continually going and coming; for the strong tide renders water carriage difficult, and drives most of the small traffic to the land route.—In accordance with the policy of the East Indian government, to separate soldiers from citizens as much as possible, the infantry garrison of Fort William is stationed at Barrackpoor, as the artillery is at Dumdum, 8 miles nearer the capital; and a detachment is detailed by monthly rotation for duty in the fort. In 1824, a regiment of Bengal sepoys, stationed at Barrackpoor, being ordered to Chittagong, for duty in Burmah, refused to Chittagong, for duty in Burmah, refused to march, separated from their officers, quitted the lines, marched to the race course, with 40 rounds of ball cartridge in their pouches, and avowed their determination to resist any atking's regiments at once attacked and put them to flight; 70 were killed, and all abandoned their arms; of the prisoners the more important were summarily hung. Several other regiments were more or less actively implicated in the mutiny. On Jan. 24, 1857, the first blow in the great revolt was struck by the several of Berrackwere who huved the tale. blow in the great revolt was struck by the sepoys of Barrackpoor, who burned the tele-graph station. Barrackpoor was then occupied by native troops exclusively, of whom there were 4 regiments in cantonments, there being but 1 British regiment within 400 miles. The disaffection spread so fast, and assumed so for-midable an aspect, that by the middle of Feb-ruary, Gen. Hearsey found it necessary to mus-ter the troops at Barrackpoor and harangue them. On Feb. 24, a small guard, detached from the 34th regiment at Barrackpoor reached from the 34th regiment at Barrackpoor, reached Berhampoor, 120 miles from Calcutta, and excited to mutiny the sepoys of the 19th, then stationed there, who rose with fierce threats in the night, and were with difficulty controlled by the prompt measures of their officers and a show of superior force. Meantime, the main body of the 34th, at Barrackpoor, committed show of superior force. Meantime, the main body of the 34th, at Barrackpoor, committed the first act of violence against a British officer. Mungul Pandy, a sepoy of the 34th, came on parade with a loaded musket, and traversed the lines, calling on his comrades to rise and kill their officers. When Lieut. Baugh, the adjutant of the regiment, rode up to arrest him, Mungul Pandy took deliberate aim at him

from behind a cannon, and fired; but only succeeded in bringing down his horse. Lieut, Baugh snatched a pistol from its holster and fired at the man, but missed him. Before he could draw his sword, Mungul Pandy felled him to the earth with the butt of his musket. The guard was close at hand, but refused to interfere. The sergeant-major, an Englishman, called on them to protect the adjutant, but their lieutenant forbade them to stir; and Mungul Pandy fired again, wounding the sergeant-major. When both officers were down, several major. When both officers were down, several sepoys of the guard beat them with their muskets. A Mohammedan sepoy then rushed forward and arrested Mungul Pandy, and Gen. Hearsey appearing on the ground, revolver in hand, prevented further violence at that time. Mungul Pandy, and the sepoy officer in command of the guard, were hanged; the loyal Mohammedan was promoted and decorated on the spot; and the 19th regiment from Berham-

poor, being shortly afterward marched down for the purpose, was disbanded at Barrackpoor.

BARRAGAN, MIGUEL, a Mexican general and president of Mexico, supposed to have been born about 1781, died at Mexico in 1836. Little is known of his early history. He was of humble parentage, and was first heard of as commandante general of the state of Vera Cruz in 1827, where he remained until 1830, when he was banished on account of his taking part in favor of the so-called *Plan Montano*, proclaimed in Tulancingo by Gen. Nicolas Bravo, then vice-president under Bustamente. On the fall of this latter personage in 1838, Barragan returned with Santa Anna, who became regislant, and by whom he was appoint. came president, and by whom he was appointed commandante general of Guadalaxara, where he remained one year, when he was recalled to take charge as president of the republic, while take charge as president of the republic, while Santa Anna went on an expedition against Zacatecas. After a few months of his presidential duties, he died of brain fever, and was succeeded by Don José Justo Cano, who was then chief justice of the supreme court.

BARRAL, JEAN AUGUSTIN, a French chemist, born at Metz in 1819. In his youth, on leaving the polytechnic school, he was employed in the bureaux of the administration of tobacco, where he distinguished himself by the

tobacco, where he distinguished himself by the extraction of nicotine from the tobacco leaf, and by establishing the fact of the poisonous nature of nicotine. Subsequently he paid much attention to the manufacture of gold, enameled China-ware, and the power of artificial magnets. He also studied the nature of manure and pastures, the manufacture of butter, &c., and, under the auspices of the academy of sciences, he analyzed the substances to be found in rain. In 1845 he was connected as teacher of chemistry with the polytechnic school, and since 1851 he has held the position of professor of chemistry and physics at the preparatory school of the college of St. Barbe.

BARRAMAIIL, a district of British India, in the presidency of Madras, lying between lat.

than a statesman. Napoleon had a poor opinion of him.

BARRATRY (It. barrateria, fraud), in maritime law, is fraudulent conduct by the master of a vessel, or by the mariners, to the injury of the owner of the ship or cargo, and without his consent. Gross negligence, or unauthorized acts of the master to the injury of the owner, are also held to constitute barratry. Under the first are included wilful acts, such as destroying or carrying off ship or cargo, or embezing any part of the cargo; under the second, deviation from the usual course of the voyage by the master for his own private purposes, trading with an enemy, evading port duties, disregard of a blockade, and other acts exposing the vessel or cargo to seizure and confiscation. Barratry is one of the risks commonly insured against, and the underwriter is liable for loss by any of the acts above specified, with the limitations: 1, that the owner in order to recover must not have consented to the act of the master or crew, but the consent of the owner of the ship will not affect the right of the owner of the cargo; so also if the vessel has been chartered, the charterer is pro hac vice the owner, and will not be affected by the connivance of the real owner. 2. The underwriter is liable for the acts of mariners only so far as they could not be prevented by ordinary care on the part of the master. Barratry by the wilful burning, casting away, or otherwise destroying a vessel on the high seas, is a highly penal offence in Great Britain, and in this country if done by a person belonging to the vessel not being an owner, as also if done by an owner with intent to defraud an underwriter, shipper, or other part-owner. See Barretry.

BARRE, a township of Worcester county,

shipper, or other part-owner. See Barretry.

BARRE, a township of Worcester county,

Mass., situated on the Ware river, 55 miles west
of Boston. The river affords a valuable water
power. Barre contains 1 woollen factory, 1
cotton factory of 2,500 spindles, 1 powder mill,
8 grist mills, and 6 saw mills. Scythes and shoes
are likewise manufactured. It has an academy
and 2 weekly newspapers. Pop. 2,787.

BARRE, Antoine Le Fèvre de La, a French

BARRE, ANTOINE LE FÈVRE DE LA, a French naval officer, born about the beginning of the 17th century, and died May 4, 1688. He was appointed governor of Guiana in 1663, and retook Cayenne from the Dutch. In 1667 he was created lieut.-general, and defeated the English in the Antilles, forcing them to raise the blockade of St. Christopher. In 1682 he was appointed to the governorship of Canada, taking the place of the Count de Frontenac. He was, however, recalled in 1684, for having caused the failure of the expedition to treat with the savages by his irresolution.

BARRE, JEAN FRANÇOIS LE FÈVRE, chevalier

BARRE, JEAN FRANÇOIS LE FÈVRE, chevalier de la, burnt at the stake at the age of 18, at Abbeville, France, July 1, 1766. He was denounced by a personal enemy for purposes of revenge, as having insulted the church by mutilating a wooden cross which was erected on a bridge in the town; he was also accused of having neg-

lected to remove his hat during the passing of a religious procession, and of having sung impious and licentious songs at a supper party; for these acts Barre was condemned and sentenced to lose his tongue and right hand, and be burnt alive; he was put to the torture to force him to confess the names of his accomplices, but though suffering the most horrible pains he retained his firmness and refused to the last to implicate any one. The parliament of Paris mitigated his punishment, by permitting him to be decapitated before being burnt.

BARRE Lago colonel in the British army.

retained his firmness and refused to the last to implicate any one. The parliament of Paris mitigated his punishment, by permitting him to be decapitated before being burnt.

BARRE, ISAAC, colonel in the British army, born at Dublin, in 1726, died July 1, 1802. His fether was a Franch price who was probably father was a French refugee who was probably driven from his native land by the revocation of the edict of Nantes, and settling in Dublin opened a small shop; he afterward became a prominent man, served as alderman, and held other offices in Dublin. Isaac Barré re-ceived his education at Dublin university and afterward studied law in London, but feeling a distaste for this profession, he obtained an signcy in the army, and was finally ordered to Canada, where he remained until the surrender He then became an intimate of Montreal. friend of Gen. Wolfe, who obtained his promotion at various times, until he reached the rank of licut.-colonel. He was with Wolfe at the siego of Quebec, and witnessed the death of that celebrated general, he being himself severely wounded. After the surrender of Montreal, Sept. 8, 1760, Col. Barré was appointed bearer sept. 8, 1760, Col. Barre was appointed bearer of despatches from Gen. Amherst announcing the event to Lord Chatham. He occupies a prominent position in "Benjamin West's great painting of the death of Wolfe." On Oct. 29, 1761, by the influence of the earl of Shelburne, Col. Barré was elected member of parliament for the borough of Chipping Wycombe. Almost his first political act was to make a personal attack upon the earl of Chatham. He has been accused of personal motives in this has been accused of personal motives in this action, as he had considered Chatham an obstacle in the way of his promotion while in the army. This attack was as bold as it was unexpected, and at once raised Barré to a promision of the contract of the cont inent position among the supporters of the min-istry, Chatham leading the opposition. March 18, 1763, after the disbanding of Barre's regiment, he received the appointment of adjutantgeneral to the British forces, and the following May, that of governor of Stirling castle, his patron, Lord Shelburne, becoming first lord of the board of trade. By this sudden elevation to office, Barré found himself in receipt of an to office, Barre found himself in receipt of an income of about £4,000 per annum, the reward of his political services. But this good fortune was destined to be short-lived, and in December of the same year, he was removed from his appointments, having joined the opposition and voted against the government on several occasions. In 1765, Mr. Grenville introduced the stamp act which was immediately apposed by stamp act, which was immediately opposed by Barré, who made a forcible appeal to the house in favor of the colonies. His speech upon this

inches each. In New York a barrel of flour must contain either 196 lbs., or 228 lbs. net weight; a barrel of beef or pork, 200 lbs. An English barrel of beer, by statute, must contain 36 imperial gallons. The measure of capacity called barrel bulk is 5 cubic feet.—Barrel is also used to express any thing long and hollow, as a gun barrel. It is also applied to the cylings of the property o der in a watch, about which the spring is coiled; and in anatomy, to the "cavity of the tym**pan**um"

unum" of the ear.

BARREL-OF-BUTTER ISLAND, a small of Scotland, Orkney. It produces nothing islet of Scotland, Orkney. It produces nothing of value except seals, for the privilege of killing which the tenant pays the proprietor a barrel of butter. This circumstance is the origin of

the name of the island.

BARRELIER, JACQUES, a French botanist, born at Paris in 1606, died Sept. 17, 1678. Having first studied medicine, and taken the degree of licentiate in 1634, he then renounced the medical profession, to enter the order of Baint Dominic. From that time he devoted himself to theology, allowing only his moments of leisure for his favorite science of botany. He was selected for his talents and prudence, in 1646, as assistant of the general of the order on one of his tours of inspection, and in this capacity he travelled through France, Spain, and Italy, and found time, without neglecting other interests, to pursue his botanical studies. He collected numerous specimens of plants, and den in the convent of St. Xyost, at Rome, where he remained during many years. He had undertaken a general history of plants, to be entitled *Hortus mundi*, with reference to be a regular correspondence with which he had a regular correspondence with the principal botanists of Europe. A part of the plants which he was to describe had aldy been engraved at Rome, when an attack of the asthma terminated his life. Many of his manuscripts were scattered and lost, but the copperplates of his intended work, and such of s papers as could be found, have been collected and made the basis of a valuable book by Antoine de Jussieu.

Antoine de Jussieu.

BARREN, a county in the southern part of Kentucky. Its name comes from the immense thinly-timbered tracts it contains, which are technically termed "Barrens." It is a are technically termed "Barrens." It is a moderately fertile region, watered by Barren river and 2 creeks. The superficial soil rests upon cavernous limestone, and sulphurous and saline springs are abundant, from which latter made to some extent in the county. salt is made to some extent in the county. The chief staples are tobacco, grain, and live stock. In 1850 the productions amounted to \$1,155,551\$ pounds of tobacco, 40,626 of wool, 1,007,560 bushels of Indian corn, and 208,398 of oats. There were 49 churches, 1 newspaper office, and 1,067 pupils attending public schools. Pop. about 20,000, including 4,584 slaves.

BARREN ISLAND. I. An island lying E. of Singapore, in the Chinese sea. II. A volcanic island in the gulf of Bengal, E. of Great

canic island in the gulf of Bengal, E. of Great

Andaman island about 60 miles. It is 18 miles in circumference, and its cone rises to the height of 1,800 feet. It is constantly active, and sometimes discharges stones and lava masses of 4 tons weight. There is very little vegetation on the island.

BARRETO, FRANCISCO a Portuguese DE, governor of the Indies, born at the commencement of the 16th century, and died on the banks of the Zambeze river, in 1574. He sent the poet Camoëns into exile at Macao. By order of the Portuguese government he undertook the conquest of that vague portion of Africa called Monomotapa. He set out on this expedition in April, 1569, and struck the continent where the April, 1009, and struck the continent where the Quilimane river runs into the Mozambique channel. His ambition was to penetrate to the mines of Massapa, whence the queen of Sheba was said to have drawn her treasures, and from which a nugget valued at 12,000 cruzadoes had batch artists artists ambidity in Postural Laboratory. lately excited cupidity in Portugal. In his explorations into the interior, he fell a victim to the climatic influences, and died in the arms of

the chimatic inducedes, and died in the arms of the missionaries who accompanied him.

BARRETRY (sometimes, but incorrectly, called barratry), in criminal law, the offence of stirring up suits and quarrels, and the party guilty of the offence may be indicted as a com-mon barretor. It seems essential to the validity of the indictment that there must be more than or the indictment that there must be more than one act, and that the alleged suits or quarrels must be between other persons. A man may bring any number of suits in his own name without being chargeable with this offence, but would be liable for bringing suits in the name of a fettious plaintiff of a fictitious plaintiff.

of a fictitious plaintiff.

BARRETT, GEORGE HORTON, an American actor, born at Exeter, England, June 9, 1794. Ile left England with his mother, an actress of some celebrity, and arrived at Boston in Oct. 1796; he made his first appearance the same year in the part of Cora's child, in Pizarro, at the age of 2 years. He commenced playing in New York in 1806, at the Park theatre, in the part of Young Norval. He became manager of the Bowery theatre, New York, in 1826, in company with E. Gilfert. He afterward visited England, and in 1837 performed at Drury Lane theatre, London, under the management of Alfred Bunn. He was also manager of the Tremont theatre, Boston, and in 1847 opened the Broadway theatre, then newly erected, but the Broadway theatre, then newly erected, but is now retired from the stage. His favorite characters were in genteel comedy, but he has also acted in farce and low comedy with great success. From his elegance and stateliness, he was known by the sobriquet of "Gentleman

George."

BARRETT, John, an eccentric classical scholar, born in Ireland, about 1746, died at Trinity college, Dublin, Nov. 15, 1821. Little is known of his early life, except that, when 6 years old, he lost his father, a clergyman at Ballyroan. He obtained his education with difficulty, his mother having been left with very narrow means. Entering Trinity college as a sizar, his

as a barrier against the heavy roll of the sea.— The most remarkable of these is the great reef off the N. E. coast of Australia. Its distance from the shore varies from 20 to 70 miles, averaging from 20 to 30. It is from 1 of a mile to 1 mile wide, and continues for about 1,200 miles in length, with only 1 interruption of much extent, which is off the southern coast of Many Chines. New Guinea. There are several small openings through it, by which vessels may enter into the great sea between the reef and the land, where amoother water is found, of good navigable depth throughout its extent. Other reefs of this nature are met with along the opposite coasts of the islands of Louisiade and New Calcoats of the islands of Louisiade and New Cal-cadonia, and between are numerous coral islands, called atolls. These reefs and islands have caused this portion of the south Pacific to be called the Coralline sea. The rolling of the long line of sea, as it breaks upon the straight reefs, is described as a display of simple gran-deur, beauty, and power, unique in kind, but often sublime in its effect, and terrible in its force and deafening roar. The subject is furforce and deafening roar. The subj ther noticed under the article Atoll

BARRIER TREATY, a treaty signed Nov.
15, 1715, by the emperor of Germany, the king
of Great Britain, and the States General of the
United Provinces, the object of which was to
define the northern frontier of France. It was the legitimate result of the war of the Spanish the contracting parties, and particularly of Holland, at the efforts of Louis XIV. to destroy the balance of power in Europe by elevating his grandson to the throne of Spain, to which the provinces adjoining the new boundary belonged.

BARRIGA NEGRA, a town or village of

BARRIGA NEGRA, a town or village of Uragusy, South America. Each of the large breeding estates in its vicinity is stocked with from 60,000 to 200,000 head of cattle.

BARRINGER, DANIEL MOREAU, an N. C., about 1807. He graduated at the university of North Carolina in 1826, established himself in the practice of law in 1829, and, after gaining distinction as a lawyer, was, in 1848, elected a representative to the national congress. He was twice reclected, and, upon the accession of President Taylor, was appointed minister plenipotentiary to the court of Spain, au office which he retained until the accession of President dent Pierce

BARRINGTON, GEORGE, British governor of North Carolina in 1724. Even in that early day, he describes the people he was sent to govern as subtle, crafty, insurrectionary; driving out their rulers, and defending their insolence by arms. He anticipated his own fate—was himself compelled to fly the colony, making his way to Charleston, whence he escaped to England. He was a rioter, a debauchee, a "peep o' day boy," and very soon after his return to England, engaging in one of his usual night excesses, he was found murdered in St. James's park. day, he describes the people he was sent to gov-

BARRINGTON, JOHN SHUTE (the first viscount Barrington), born 1678, died 1734. To his family name of Shute the surname of Barrington was added on his accession to the Barrington estates, in Essex. In 1720 he was placed in the peerage of Ireland, as Viscount Barrington. He had previously sat in the British house of commons, whence he was expelled an account of his connection with the Harburgh on account of his connection with the Harburgh lottery. He was author of Miscellanea Sacra, lottery. He was author of Miscellanea Sacra, an essay on the several dispensations of God to mankind, and "The Rights of Protestant Dissenters."—His eldest son, WILLIAM WILDMAN, was successively secretary of war, chancellor of the exchequer, and treasurer of the navy. He retired from public life in 1778, after 34 years' official service, and died in 1793.—John Bartan official service, and died in 1793.—John Bartan delayers. BINGTON, his 2d son, a major-general, commanded the British troops at the taking of Guade-loupe, in 1758, and died in 1764.—Daines Bar-BINGTON, his 8d son (born 1727, died 1800), antiquary, lawyer, and naturalist, was made 2d justice of Chester, in 1757, which office he held for 26 years, when he resigned it and passed his remaining years in the chambers in the tem-ple, to which he was entitled as a bencher. He was a voluminous author, his chief work being "Observations on the Statutes," which passed through 4 editions in his lifetime. He wrote several papers on antiquities and natural philosophy, and strongly advocated the propriety of an expedition of discovery to the polar regions. —SAMUEL BARRINGTON, the 4th son, died March 14, 1800, became rear-admiral. He took St. Lucia in the face of a superior force, and was conspicuous for his zeal and courage at the celebrated relief of Gibraltar by Lord Howe.— SHUTE BARRINGTON, the youngest son, born 1734, died March 27, 1826. Having entered the church, he was successively chaplain to George III., canon of Christ church, canon of St. Paul's and Windsor, and bishop of Llandari Colisbary and Durham. He was translated to Salisbury, and Durham. He was translated to his last see in 1791, and held it for 85 years. He was high-church and anti-papal, a tory, a scrupulous and vigilant official. His income was large, and his charities commensurate with it. The sum of £60,000 having come into his

wis large, and his charities commensated with it. The sum of £60,000 having come into his possession, by a suit respecting some coal-mines in his diocese, he devoted the whole of it to the foundation of charity schools and the relief of poor clergymen and their families.

BARRINGTON, Sie Jonail, lawyer and author, born in Queen's county, Ireland, in 1767, died at Versailles, near Paris, April 8, 1834. He graduated at Trinity college, Dublin, was called to the Irish bar in 1788, and entered the Irish parliament in 1790, as member for the borough of Tuam. His father being a gentleman of large landed property, who had thriven under governmental patronage, Mr. Barrington's maiden speech as a legislator was directed against Grattan and Curran, two eloquent leaders on the popular side. To reward and encourage him, a sinecure in the Dublin custom house, worth £1,000 a year, was given to him

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being a mile to windward, wore round and bore down upon the American ship, and as she came upon the weather-quarter, hailed, and informed her that she had a despatch for Com. Barron. Until this moment, nothing unusual was perceived in the movements of the Leopard, but it was now seen that her lower deck ports were triced up, that the tompions were out of her guns, and that she was evidently prepared for mis-chief. A boat was lowered immediately from the Leopard, and a lieutenant came on board the Chesapeake. He bore a despatch, signed by Vice-admiral Berkeley, dated Halifax, June 1, ordering all captains under his command, should they fall in with the Chesapeake anywhere on the high seas, to show her comwhere on the high seas, to show her commander the order to "require to search for the same." Some correspondence had taken place in Washington, between the British minister and the home government, in regard to men on board the Chesapeake, said to have deserted the English service, but full explanations had been made, and all was supposed to be satisfactory. To the missive from the English admiral, Com. Barron replied that he knew of no such deserters on board the Chesaknew of no such deserters on board the Chess peake, and that his orders would not allow him to suffer her crew to be mustered by any officers but their own. The lieutenant returned, and in very few moments afterward the Leopard A very new moments afterward the Leopard fred a broadside into the Chesapeake. The American ship was in no condition to return it; beside her inferior force, she was in utter confusion on first coming out of port, and it appears strange that any man-of-war should ever be permitted to go to sea in such a state, unable to clear for action on a sudden emergency. to clear for action on a sudden emergency. She had a perfectly raw crew; her decks were littered with cables, stores, and even cabin furniture, and the baggage of passengers, and although the guns had been loaded, rammers, wads, matches, gun-locks, and powder-horns were all wanting. And here it is proper to state, that in conformity with the custom of the navy, the equipment of the ship for sea had been entirely confided to her immediate comto clear for action on a sudden emergency. She been entirely confided to her immediate com-mander, Capt. Gordon, who was an officer of high standing. Com. Barron's visits to her were but few and brief, until the captain officially, and in writing, reported her ready for sea, and that her crew had been stationed at the guns. This was 3 days before she sailed. The Leopard continued to fire, until Barron finding that no resistance could be made, ordered the colors struck. A single gun was fired by the Chesapeake just as her colors were hauled down. There being no matches at hand, it was discharged by means of a coal brought from the galley. The ship received 21 shot in her hull, and 8 were killed, and 18 wounded, among whom were Com. Barron, and his aid, Mr. Broom. Four men, claimed as English, were taken out of her, and she returned to Hampton Roads the same Intense excitement was created

throughout the country by this high-handed outrage, and the vengeance demanded against England was not forgotten until after the succession of naval victories, which crowned the American arms in the war of 1812. Barron was court-martialed under 4 charges, which embraced 22 specifications. He was entirely acquitted of 3 of the charges, but was found guilty of 2 specifications of a charge "for neglecting, on the probability of an engagement, to clear his ship for action," and sentenced to be suspended for 5 years, without pay or emoluments. The court closed its finding on the subject of the personal conduct of the accused, in the following language: "No transposition of the specifications, or any other modification of the charges themselves, would alter the opinion of the accused; the evidence on this point is clear and satisfactory." Such was the fate of Com. Barron, but it is more than probable that under the state of public feeling, demanding a victim, those who were really responsible for the efficiency of the Chesapeake, escaped unpunished. Admiral Berkoley's conduct was disavowed by the British government, and he was recalled from his command. Capt. Humphreys was never afterward employed affoat. On March 22, 1820, after a long correspondence with Com. Decatur, growing out of the old affair of the Chesapeake, Barron fought a duel with him at Bladensburg. Both fell at the first fire, and it was supposed both were mortally wounded. Decatur died the same night, and Barron recovered after months of great suffering. During the latter years of his life he held several important commands on shore. The command of the squadron in the Pacific was tendered to him, but declined.

The command of the squadron in the Facine was tendered to him, but declined.

BARRON, Samuel, brother of the foregoing, a commodore in the American navy, born in Hampton, Va., in 1768, died Oct. 29, 1810. In 1798 he commanded the brig Augusta, which was prepared by the citizens of Norfolk to resist the aggressions of the French—During the war with Tripoli at a subsequent period, he took a conspicuous position, and in 1805, commanded a squadron of 10 vessels, his flag ship being the President, 44. The pasha of Tripoli, or bashaw as he was styled, was Jussuf Caramalli, a usurper, who had deposed his brother Hamet. Mr. Eaton, the consul at Tunis, was apprised that it might be of great service to secure the cooperation of Hamet in the war against his brother, and provailed on the American government to lend indirect support to the measure. Com. Barron received the following instructions: "With respect to the ex-bashaw of Tripoli, we have no objection to your availing yourself of his cooperation with you against Tripoli, if you shall upon a full view of the subject, after your arrival upon the station, consider his cooperation expedient. The subject is committed entirely to your discretion; in such an event, you will, it is believed, find Mr. Eaton extremely

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principles under a constitutional monarchy. Much, however, of his reputation as a statesman was gained by his ability as an orator. This made him formidable in the chamber and This made him formidable in the chamber and at the bar. His oratory, although more directed to the feelings than to the judgment, generally produced an electric effect, which was strengthened by the magnetism of a dignified presence. II. FERDINAND, brother of the foregoing, born in 1805, also a lawyer by profession, was a member of the chamber of deputies in 1845. Having displayed some talent in handling the questions connected with Algeria, he was in 1848 chosen as representative of that he was in 1848 chosen as representative of that colony to the constituent assembly. He had ingratiated himself with Louis Napoleon by his services as counsel, consequent upon the at-tempts upon Strasbourg and Boulogne, and became his secretary-in-chief, and acted as his minister of the interior from Oct. 31, 1849, to March 15, 1850, when he was succeeded by M. Baroche. Afterward he was ambassador at Turin, until the consummation of the coup d'état, which brought him back to Paris, where he became a councillor of state and sanator

BARROW, the name given to artificial mounds, which from the remotest antiquity have been reared in various parts of the earth, in honor of distinguished persons. They are formed either of earth or of stones, are men-tioned in the book of Joshua and the Homeric poems, and are found among the relics of Egyptian, Greek, Roman, and Scythian domination. There are also in England and Scotland numerous barrows of druid origin, one of which, known as that of Wayland Smith, in Berkshire, is mentioned in Sir Walter Scott's novel of Kenil-Barrows are also found in large numworth. bers in America, the memorials of an unknown

history.

BARROW, a river in Ireland, next in size and importance to the Shannon. It rises in the mountains of Leinster and flows in a southerly direction about 90 miles to the estuary of Waterford harbor, of which it forms a part. For a river of its size, it is navigable for ships a considerable distance, and barges ascend to Athy, about 60 miles, where it is joined by a branch of the grand canal. It forms the boun-dary line of the counties of Kildare, Carlow, Wexford, Kilkenny, and Queens. The towns of Portaglington, Athy, Carlow, and Craig are on Portarlington, Athy, Carlow, and Craig, are on its banks

its banks.

BARROW, ISAAC, a mathematician and divine, the first incumbent of the Lucasian chair at Cambridge, afterward rendered so illustrious by his pupil Newton, was born in London, 1630, died May 4, 1677. His father, a linendraper, put him first for a few years at the Charter House school, but he proved a pugnacious and idle boy. At Felsted, in Essex, he showed more aptitude for study, and prepared himself for Cambridge, where he was first admitted a pensioner of St. Peter's, afterward of Trinity college. At the age of 25, having masvol. II.—43

tered most of the learning of that period, he started for France and Italy, and by way of Leghorn to Smyrna. On the voyage, the ship was attacked by an Algerine pirate, and Barrow was attacked by an Algerine pirate, and Barrow bore a heroic part in a successful resistance of the assault. From Smyrna he went to Constantinople, where he studied Chrysostom's writings with great delight. Returning homeward by way of Venice, Germany, and Holland, he was ordained to the Episcopal ministry in 1659, and at the age of 30, was appointed professor of Greek at Cambridge. In 1662 he was appointed professor of geometry in Greeham college and ed professor of geometry in Gresham college, and in 1663, elected a fellow of the royal society at the first election after their incorporation. was the same year elected by the executors of Mr. Lucas, the first occupant of the chair of math-ematics founded in his will. Six years afterward, at the age of 39, he resigned this post and was succeeded by Sir Isaac Newton. In 1672 he was appointed master of Trinity college, and in 1675, chosen vice-chancellor of the university 1675, chosen vice-chancellor of the university at Cambridge, but soon after was taken away by a fever. His scientific works consist of an edition of "Euclid's Elements," of "Euclid's Data," "Lectures on Optics," "Lectures on Geometry," an edition of "Archimedes," "Appollonius's Conic Sections," and "Theodosius' Spherics," a lecture on "Archimedes' Sphere and Cylinder Theorems," and lectures on "Mathematics." All these works are in Latin. Afteresigning the Lucasian chair, he wrote in his native tongue, and solely on theological and renative tongue, and solely on theological and renative tongue, and solely on theological and religious themes, or questions of practical duty. His theological works, consisting of treatises on the pope's supremacy and the unity of the church, and of sermons on the creed, the Lord's prayer, the decalogue, and the doctrine of the sacraments, were published in 3 folio volumes a few years after his death. His sermons usually occupied from 1½ to 3 hours in delivery, and though they are sometimes prolix, they are more frequently marked by a pregnant brayity of expression and contain paspregnant brevity of expression, and contain passages which, in vigor of style and exhaustiveness of view, are perhaps unsurpassed in pulpit literature. His works retain their value to the nterature. His works retain their value to the present day, being rich in thought and diction, and offering to the mathematician, and also to the Christian student, not only treasures of knowledge, but fertile suggestions of wisdom. Westminster abbey offers to the English Christian scholar no tomb or bust that awakens are not instruction price that there have of Dr. Issae more just patriotic pride than those of Dr. Isaac

BARROW, Sie John, traveller, author, and for many years secretary to the British admifor many years secretary to the British admiralty, born near Ulverstone, in Lancashire, June 19, 1764, died Nov. 23, 1848. Devoting himself early to the study of astronomy, geography and mathematics, he taught the former at an academy at Greenwich, from 1786 to 1791. Through the interest of Sir George Staunton, whose son he taught, he went out, in 1792, as comptroller of the household, in Lord Macartany's embessy to China and published an account ney's embassy to China, and published an account

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country was secured, and its political form defined, Barrundia devoted himself to such reforms, social and civil, as its new condition required. Although called frequently to hold high political position and executive authority, he invariably declined office, devoting his time of the country, to conform to its altered cir-cumstances. Always ardent in his admiration of the United States, he studied its laws with the greatest attention, and finally presented to his countrymen a translation of the code drawn up by Mr. Livingston, for the state of Louisi-ana. He brought it before the legislature of his own state, and procured its adoption. In 1825 he was elected vice-president of the republic, but declined the post. In 1829 he was charged with the presidency itself, in which position he served with wisdom and position he served with wisdom and modera-tion. Not a drop of blood stains the record of his administration. Justly comprehending that popular ignorance was the canker at the heart, from which the institutions of the country had most to fear, he applied himself to the organization of a general system of public instruction.

To give it the support of a high example, in common with the other officers of state, he devoted the intervals of his official duties to the practical service of teaching a common school. In the troubles which overwhelmed the country, after his retirement from onice, his con-was always heard counselling moderation and humanity. In its darkest hours he never surafter his retirement from office, his voice humanity. In its darkest hours ne never burrendered the hope of witnessing its regenera-tion, nor ceased his efforts to restore its peace 1852, 3 of the 5 states which had composed the old republic again united, he was unanimously chosen president. But the compact was of brief duration, and before he had entered on the duties of his office, 2 of the states had withdrawn their adhesion, and the last attempt at national unity had failed. Barrundia thereupon retired from political life, and devoted himself to writing the history of the events in which he had played so conspicuous a part. In 1854, however, he was persuaded by the government of Honduras to accept the post of minister to the United States, for the purpose, as it is alleged, of securing the annexation of that resolved the the American microscitic to resolved the public to the American union. He reached the United States, but before entering on the duties of his mission, he was stricken with apoplexy, and died.

BARRY. I. A south-western county of Michigan, intersected by Thornapple river, a valuable mill stream, and comprising an area of 576 sq. miles. It has an undulating surface, occupied by alternate tracts of fertile prairie and woodland, and dotted with numerous small lakes. The principal kinds of timber are the sugarmaple, ash, and beech. The staples are grain, hay, potatoes, and wool. In 1850, the productions amounted to 79,999 bushels of wheat, 108,242 of Indian corn, 41,819 of oats, 53,612 of potatoes, and 6,541 tons of hay. There

were 1,189 pupils attending public schools. The county was named in honor of William T. Barry, postmaster-general under President Jackson. Capital, Hastings. Pop. in 1850, 5,078. II. A south-western county of Missouri, bordering on Arkansas, comprising an area of 703 sq. miles, and drained by King's river, Flat creek, and White river of Arkansas. It has a hilly surface, in some places covered with forests, in others occupied by rich prairies. The principal rock is limestone. Lead is known to exist in various parts of the county, but the mines have not been explored to any great extent. Grain, cattle, and swine are the staples. The productions in 1850 amounted to 194,525 bushels of Indian corn, 13,166 of wheat, 23,324 of oats, and 28,109 lbs. of butter. Capital, Cassville. Pop. in 1856, 4,929, of whom 244 were slaves.

BARRY, Sir Charles, an English architect, born at Westminster, in May, 1795. After pursuing his professional studies in England, he travelled upon the continent, and in Italy attracted the attention of some persons of taste and fortune, by the beauty and force of his drawings. He visited Greece and Egypt, and returned to England in 1821, after an absence of 3½ years. He was the successful candidate for designs for several edifices in the Grecian, Italian, and Gothic styles, and in London attracted particular attention in 1832, by the travellers' clubhouse. This was in the Italian style, for which Barry always has shown a predilection, and though one of the most pleasing buildings of its class in the city, it was surpassed by the magnificent reform club-house, which he designed 15 years later. The grandest of all the architectural works which he has yet completed, and that which best reveals his genius, is the new parliament house at Westminster, the most costly building that has been erected in England for centuries. The old houses of parliament were burned in 1834, and the design offered by Mr. Barry for a new edifice was accepted. The work upon the new houses was begun in 1840, but is still incomplete, and cannot therefore be yet fairly judged. The Victoria tower and royal gallery was opened in state by the queen in 1852, when the honor of knighthood was conferred upon the architect. He was also chosen a royal academician in 1841, a fellow of the royal society in 1849, and is a member of the London institute of architects, and of the academies of the fine arts at Brussels, Berlin, Stockholm, St. Petersburg, and Rome.

emies of the ine arts at Brussels, Berlin, Stock-holm, St. Petersburg, and Rome.

BARRY, Gerald, better known by the name of Giraldus Cambrensis, a learned Welsh ecclesiastic, born at the castle of Manorbeer, in Pembrokeshire, about 1146, died about 1220. At the age of 20, he was sent to the university of Paris, where he remained 3 years, and became an excellent rhetorician. On his return to England, he entered into holy orders; and observing that his countrymen, the Welsh, were very backward in paying tithes to the church, he procured of the archbishop of Canterbury an ap-

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royal academy of dissipating its funds, and proposed that, in future, their votes should be given on oath. When the academy erased his name from their roll, the public subscribed £1,000 to compensate him. The first Sir Robert Peel allowed him an annuity of corresponding value, but the painter did not survive to receive more than the first year's income. He died in his house in Castle street, Oxford market, London,—a dwelling, says Southey, which was never cleaned, where he slept on a bedstead with no other furniture than a blanket nailed on one side. He lived like a man suffering under extremest poverty, but, in his direst need, refused to incur the obligation of debt. In his latter years he mused much and wrought little, but was more or less occupied on a series of subjects to exemplify the progress of theology, of which he had executed "Pandora," or the heathen Eve. He had also commenced a series of "Illustrations of Milton."

BARRY, John, the first American commodore, born in Wexford, Ireland, in 1745, died Sept. 13, 1803. He early displayed a great partiality for the sea, and at the age of 11 adopted America as his home, and made a number of voyages in merchant ships, until the commencement of the revolution. He at once embraced the cause of the colonies, offered his services, and was one of the first officers commissioned by congress in the naval service. In Feb. 1776, he was appointed to the command of the Lexington, 14, and after a sharp action took the Edward tender. He was soon transferred to the Effingham frigate, and in 1777, in the Delaware, at the head of 4 boats, carried an enemy's man-of-war schooner, in the most gallant style, without the loss of a man. Finding that the ice in the river and bay impeded sailing operations, and unwilling to remain inactive, he joined the army for a short period, as aidedecamp to Gen. Cadwalader, and rendered good service in the operations about Trenton. His vessel being destroyed, he was appointed to the command of the Raleigh, of 32 guns, but this ship was also lost, he being obliged to run her on shore in Penobscot bay, while pursued by British cruisers. In 1781 he sailed in the Alliance, carrying Col. Henry Laurens, of South Carolina, on an embassy to the coast of France. While returning, he fought, on May 29, a severe battle with the Atalanta, of between 20 and 30 guns, and her consort, the Trepassy, taking both of them. In this action he was badly wounded. On Dec. 21 of the same year, he sailed again in the Alliance from Boston, with the Marquis de la Fayette and Comte de Noailles on board, who were returning to France on important public business. On his return he took a number of prizes, and captured a frigate of equal size with his own vessel, which was, however, rescued by a superior force. He continued to serve during the war with the highest credit, and he is said to have rejected the most tempting offers from the British government, nobly refusing to turn traitor to the

cause of his adopted country. After the cessation of hostilities he was employed by the government in superintending the building of the frigate United States, of which he retained the command until after the accession of Mr. Jefferson to the presidential chair, when she was laid up in ordinary. When the new marine of 1794, which was the foundation of the present navy, was established, Commodore Barry was named as the senior officer, in which station he died.

BARRY, MARIE JEANNE GOMAED DE VAU-BERNIER, afterward the countess du Barry, was the putative daughter of a minor functionary of Vaucouleurs, where she was born Aug. 19, 1746, guillotined Dec. 7, 1793. After the death of her father, she was for a short time placed, by a godfather, M. Dumonceau, in a convent, which, however, she left in the 15th year of her are, to learn the trade of millings. year of her age, to learn the trade of milliner, at Paris. Arrived in that city, she soon became the willing victim of its seductions, and under the name of Mile. Lange she engaged in a disreputable connection with a fallen lady as a mistress, by Count Jean du Barry, a profigate nobleman of the court of Louis XV. Her beauty, her manners and beauty. beauty, her manners, and her wit, combined to fascinate the passions of that weak and volupfascinate the passions of that weak and voluptuous monarch, who caused her to be married to Count Guillaume du Barry, a brother of Count Jean, and transferred her to the court, as the countess du Barry. She there acquired a complete ascendency over the king, and, through him, over the courtly society. The part which the marchioness de Pompadour had recently played was renewed by this favorite. She was probably faithful to the king, but her prodigality was ruinous; for, beside the presents lavished upon her by himself, his officials, and those who sought favor, she drew more than 18,000,000 of francs from the treasury, to meet the exigencies of her husband and brother-in-law. Her benevolence, however, had as than 18,000,000 of francs from the treasury, to meet the exigencies of her husband and brother-in-law. Her benevolence, however, had as much to do with her expenditures as her love of pleasure. Her godfather Dumonceau she richly rewarded; she established her mother comfortably at Paris, and she gave large sums to artists and literary men. In public her conduct was dignified and reserved, and gained ther many friends, but in private she was often frivolous to an extreme. It was her influence which caused the exile of the Duke de Choiseul, which caused the exile of the Duke de Choiseul, then prime-minister; but she was never fond of political intrigues. On the death of Louis XV., in 1774, his successor banished her to the abbey Pont aux Dames, near Meaux, where, for a little time, she was treated with considerable rigor by Louis XVI., but in 1776 he allowed her to occupy her former estate of Lucienne. In that place she endeavored, by a life of active charity and general kindness, to compensate the errors of her previous career. In 1790, when France was in full revolution, 3 persons in military dress entered her apartment and took her valuables, to the amount of 400,- BARTH 679

Horer of central Africa, born at Hamburg, April 18, 1821. At the university of Berlin his favorite pursuit was classical geography, and this led him to travel through the littoral countries of him to travel through the himiral countries of the Mediterranean. Having previously visited Italy and Sicily, he commenced his African re-searches in 1845, at Tangier, in Morocco, and proceeded along the Algerian coasts, with ex-cursions into the interior to Tunis, Tripoli, and across the sandy desert to Bengazi. While proceeding thence to Cairo in Egypt he was attacked by a band of Arab robbers, severely wounded, and stripped of his papers relating to the latter part of his travels. He continued his researches, at an expenditure of his private resources to the extent of \$14,000, and starting from Cairo investigated Egypt, Sinai, Palestine, Asia Minor, the islands of the Ægæan sea, and Greece. The first volume of his travels was reblished in 1840 under the title Wandens published in 1849, under the title Wanderungen durch die Kustenlander des Mittelmeeres, and he was engaged in the preparation of the second when the proposition was received by him from the British foreign office, to under-take an expedition of discovery into central Africa, as scientific companion to Mr. James Richardson, a British subject and man of enterprise. Dr. Barth informs us in the preface to his great work, hereafter mentioned, that the exploration of central Africa became the dream of his life, from the time of a casual conversation with a Houssa slave whom he met in Trip-oli. It was on Oct. 5, 1849, that Chevalier Bunsen communicated to Dr. Barth the readiness of the British government to pay the expenses of the British government to pay the expenses of a German man of science, provided that he would furnish the sum of \$1,000 toward his own outfit. The geographical society of Berlin advanced this sum, and the physical society of Königsberg and the king of Prussia contributed a sum of \$700 each to the enterprise. Dr. Barth at first yielded to the earnest entreaties of his father and relatives, and height to account the offer. Dr. Overand hesitated to accept the offer. Dr. Over-weg then volunteered, and his services were accepted by the British government on the same conditions as those offered to Barth. Barth's love of science at length overcame his Sentiment of filial duty, and he closed with Lord Palmerston. Richardson, Barth, and Overweg, met at Tripoli, in the winter and spring of 1849-'50, and had a boat constructed there for navigating Lake Tchad. The party started for the interior April 2, 1850, with the great semi-annual caravan to Bornoo. On May 6 they reached Moorzook, the capital of Fezzan, which they left June 13. From here they proceeded in a S.W. direction through the unknown kingdom of Air or Asben, which had never been visited by Europeans. While making this stage, Dr. Barth lost himself in the desert, and remained for 28 hours without water, preserving his life by drinking his own blood. As the Tuariks had never known any one survive more than 12 hours' deprivation of water in this situation, they regarded him as a demi-god or

supernatural being. The aspect of the boat carried about with them by the explorers, excited carried about with them by the explorers, excusu-the same sentiment of wonder and awe in the minds of these savage tribes. Before reaching Agadez, the party were attacked and pillaged by some fanatical Moslems, and narrowly es-caped death. They were detained by the fero-cious chief of Tintellust, from Sept. to Doc. 1850. Dr. Barth at length procured the re-lesse of himself and fellow-travellers by makelease of himself and fellow-travellers by making a pilgrimage to the sultan of Ennoor, the lord paramount of the chief of Tintellust, and procuring the sultan's order for a release. procuring the sultan's order for a release. After this the party made a journey to Agadez, and parted there with Richardson, making Kuka their place of rendezvous and future rejoining for April, 1851. Richardson died at Ungurutua, March 4, 1851, when within 6 days of Kuka, while Dr. Barth, who had taken the route via Kashua and Kano, hurried to Ungurutua, and saved the papers of the head of the expedition and forwarded them to England, where they were speedily published. Dr. Overweg had parted from Barth on Jan. 13, and explored Guber and Mariadi, 2 independent pagan countries in the direction of Sakatoo, where he tries in the direction of Sakatoo, where he spent 2 months, and rejoined Dr. Barth at Kuka, via Zinder, May 7. Barth had arrived at Kuka, April 2, and was hospitably received by the sultan of Bornoo, and the vizier, who manifested his affection for the European by making him a loan of \$100, a welcome deed, for Barth's funds were exhausted, and the new British remitteness had not come to hand. Buth ish remittances had not come to hand. the travellers, while travelling in Houssan, had noticed articles of American manufactures among the wildest of the tribes, and suppose that these articles have penetrated thither in exchange for slaves. The two travellers again separated. Dr. Barth went to explore the kingdom of Adamawa, of which he had heard on his way from Kano to Kuka. The sultan of Bornoo gave him an escort of a captain and 8 men, and a letter of introduction to the ruler of Adamawa. He started May 29, and travelled southward for 4 weeks, through forests in-fested with lions and elephants. He found the He found the Mohammedan population of Adamawa strikingly superior to the pagan. Here, as elsewhere, the superior to the pagail. Here, as easewhere, the natives looked upon the European as something superhuman, and he might have obtained an abundance of money had he condescended to apply his literary talents to the writing of rhythmical charms. On June 18, Dr. Barth was rewarded by a grand discovery: he came when the great river Benna at its junction with upon the great river Benue at its junction with its affluent the Faro. He immediately conjectured that this must be the same as the Chadda or eastern branch of the Niger, as described by the Landers and others. This has since been the Landers and others. This has since been ascertained to be the fact, by Mr. Macgregor Laird's steamer, the Pleiad, which ascended the Chadda for 250 miles beyond the point reached by Allen and Oldfield in 1833, and proved that it was navigable for 5 months of the year up to the borders of Bornoo and the very heart of the

the royal service, but at this period the lower classes were never commissioned in the royal navy, and Barth was constrained to take the command of a privateer. In this position op-portunities soon occurred for distinguishing himself, and his name became known to Louis XIV., who commissioned him to cruise in the Mediterranean. Here his bravery soon raised him in the favor of the king, and he was ap-pointed captain of the squadron in 1697. France being now at war with the Dutch, a field was opened of which Barth was not slow to take advantage, and the most unexampled feats of daring soon made him the terror of his enemies. On one occasion, a famine existing in France, Barth recaptured from the Dutch 100 sail of vessels, loaded with grain. At another time when Dunkirk was blockaded, taking advantage of a fog, he sailed through the English and Dutch fleets, and destroyed 86 merchantmen: then making a descent near Newcastle, Northern was the sailed through 200 hearst and reumberland, he destroyed 200 houses, and re-turned safely with property valued at 500,000 crowns. Barth was rough in manners, and entirely uneducated; indeed, he could with difficulty scrawl his own name; but he was as simple-minded and honest as he was brave. A statue to his memory, by David d'Angers, was erected at Dunkirk in 1845.

BARTH, KARL, a German engraver, born in 1792, at Hildburghausen. In conjunction with the celebrated Amsler, he executed the plates of the Nichelungenlied, after the designs of Corp. nelius. His engravings of the head of Raphael, of Friedrich Schlegel, of the poet Ruckert, of Adelbert von Chamisso, of Prince Alexander v Thurn and Taxis, and especially his plates of the seven years of famine in Egypt, after a design of Overbeck, belong to his most remarkable works. He has also written some poems under the name of Karl Barbarino.

BARTHE, FÉLIX, a French lawyer, politician, and public minister, born at Narbonne, July 28, 1795, and studied law at Toulouse. He was admitted to the Paris bar when only 22, and made his fame by defending the accused in state trials. He took an active part in the revolution of 1830, and belonged to the party of the National news-After the completion of the revolution paper. After the completion of the revolution he was made *Procureur du roi*, member of the he was made Procureur du roi, member of the chamber of deputies, and minister of public instruction. In the Casimir Périer administration he was minister of justice. In 1834 he left the ministry and became president of the court of accounts. In the administration of Molé, Barthe became minister of justice and religion. He took part in the amnesty granted under this administration, and retired from public service on its overthrow in 1839. In 1844 he became vice-president of the chamber of peers. During the republic of 1848-'9, he of peers. During the republic of 1848-'9, he public life again, and in 1854, became once more president of the court of accounts.

BARTHELEMY, AUGUSTE MARSHILLE, a

French satirist, born at Marseilles in 1796.

Extraordinary facility in verse-making, an excitable fancy, an incredible mobility of opinions, were the characteristics of this poet, who once enjoyed great popularity, but is now as entirely forgotten as if years had passed over his grave. He early gave evidence of his utter want of conscience, by writing almost at the same time a sharp Satire contre les Capucius, in which the government of the Bourbons was not spared, and an article against the freedom of the press, which appeared in the Drapeau blanc, a thorough royalist paper, and was so much to the taste of the court that he received a gift of 1,500 francs from Charles X. He then repaired to Paris, and following for a while the same course, he sang the praise of the new king in his Ode sur le sacre, 1825; but this brought him the paltry sum of 800 francs; and disgusted at such meanness, he secretly vowed that sooner or later he would take vengeance on the parsimonious king. Just at that moment, Méry published a king. Just at that moment, Mery published a witty political satire, under the title of Epitre à Sidi Mahmoud, the Persian ambassador at Paris; and forthwith Barthélemy answered by a no less pungent one, Adieux à Sidi Mahmoud. This was followed by a rootical manual. moud. This was followed by a poetical partnership between them, the first effusion of which was the Réponse de Sidi Mahmoud, and the Consécration. They now kept up a poetical the Consecration. They now kept up a poecies warfare against the government in satires of various kinds. The unbounded popularity won various kinds. The unbounded popularity won by La Villèliade, a virulent attack on the ministry of Villèle, caused the authors to be regarded as the wittiest supporters of the opposition. La Peyronnéide, ou épître à M. de Peyronnet and the Etrennes à M de Villèle, overflowing with sergean ware against well receive flowing with sarcasm, were equally well received. But the poets had higher aspirations, and published, in 1828, Napoléon en Egypte, copies of which were forwarded to every member of the Bonaparte family in Europe or America; and Barthélemy repaired personally to Vienna, in the hope of being admitted to the presence of the duke of Reichstadt. But he was refused all communication with the young prince, and could only look on him for a few minutes from his seat at the theatre. Returning to France, Barthélemy reported his impressions in a poem, entitled Le Fils de Phomme, for which he was arraigned, and sentenced to 3 months' imprisonment. arraigned, and sentenced to 3 months' imprisonment and a fine of 1,000 francs. He had meanwhile bitterly assailed the minister of war, Bourmont, in his poem of Waterloo, and the prefect of police in his Epitre à M. de Saintine. He was consequently treated with severity, and when his term of confinement expired, he was detained 8 months longer for the non-payment of his fine; but this added only to his popularity. The revolution of July, 1830, was hailed by Barthélemy and Méry in a poem, L'Insurrection, in which they paid a compliment to Louis Philippe, for which the former was rewarded by a pension of 1,200 francs. For a while Barthélemy was silent; but in April, 1831, he burst out with the first of a series of satires, called La Némésia, announcing that a was devoted to politics; he became one of the assistant editors of the Globe newspaper, which held a conspicuous place in the opposition press, previous to the revolution of 1830; and in that capacity he signed the protest of the Journalists against the royal ordinances of July 26. He was dissatisfied with the accession of Louis Philippe; so he entered the society Aidetol, le Ciel t'aidera, and became one of its most assiduous members. In 1832, associating himself with Cauchois Lemaire and Victor Rodde, he founded the Bon Sens newspaper, which was at once noted for the boldness of its opposition to the government. He afterward became an occasional contributor to the National, the Constitutionnel, and the Courrier Français, the 3 leading opposition papers at that time, when suddenly, in 1833, a complete change occurred in his mental disposition. He gave up politics entirely and devoted himself to philosophy. For 10 years he was assistant professor of literature in the polytechnic school, when he was promoted to the professorship of Greek and Latin philosophy in the college of France, March 23, 1829. In 1840 he was general secretary pro tem. to the minister of public instruction. He had already published his Mémoire sur Fordre des lirres de la politique Aristote, and another memoir De la logique Aristote, for which he received a prize at the hands of the French institute, and he was then engaged in his translation of the complete works of Aristotle. The revolution of 1848 brought him back to political life. He was chosen to the national assembly, and on Nov. 25, 1848, moved to impeach Gen. Cavaignae for want of prudence and energy in the insurrection of 1861, he refused to take the oath of allegiance to the new government. Since then he has returned entirely to philosophical pursuits.

BARTHEZ, PAUL JOSEPH, a French physician, born at Montpellier, Dec. 11, 1734, died Oct. 15, 1806. He studied medicine in his native city and in Paris, and in 1757 became royal censor and a contributor to the Journal des savants and the Encyclopédie méthodique. Three years later he became a member of the faculty in the medical school of Montpellier, and soon obtained great renown, both as a professor and as a practising physician. He developed a new philosophical method in his Noureaux éléments de la science de l'homme. His haughty character led him into disagreement with his colleagues, in consequence of which he removed to Paris, where he became consulting physician of the king, member of the council of state, and fellow of most of the learned societies of Europe. He went into retirement during the revolution. He was one of the most metaphysical of physicians. He explained the animal economy, not by physical or chemical laws, but by the theory of a vital principle. The foundation of his philosophy is physiological individuality, unity of action in the functions of life, and to the unknown source of life he subjected all the organs of the

body. He has been called the Hegel of medical science, and like that of the German philosopher, his system has made enthusiasts, suffered sovere criticisms, and been the mother of other systems.

BARTHOLDY, Jakob Salomo, a German Hobrew, born at Berlin, Kay 175, 1779, died at Rome, July 27, 1825. He was educated at Halle, and visited Paris, Greece, and Italy. On his return from his travels he became a Protestant Christian. He joined the Austrian army against the French, and took part in the campaigns until the occupation of Paris in 1814; was present at the congress of Vienna and of Aix la Chapelle, and afterward lived at Rome, where he was a great patron of the fine arts. He called the art of fresco-painting into new activity by having his house decorated al fresco by Overbeck, Cornelius, Schadow, and Catel. His collections of bronzes, vases, and glasses were bought for the museum of Berlin.

nuseum of Berlin.

BARTHOLIN, Kaspar, a Danish physician, born at Malmo, in Sweden, Feb. 12, 1585, died at Sorōe, July 13, 1630. He travelled in Germany, France, England, and Italy, and taught medicine at Padua, Wittemberg, and Copenhagen. He was for many years rector of the university of Copenhagen, and left several works both on medical and literary subjects.—Thomas, a Danish physician, the most distinguished of the sons of the preceding, born at Copenhagen, Oct. 20, 1619, died Dec. 4, 1680. After travelling throughout Europe, and making the acquaintance of the most learned men of his time, he became professor of anatomy in the university of Copenhagen. He made several discoveries in this science, and his merits were highly esteemed by the king, who appointed him the royal physician, and bestowed emoluments upon him after he had lost his valuable library by a fire. He left many medical works.

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BARTHOLOMEW, a central county of Indiana, containing about 400 sq. miles, well supplied with mill streams, and drained by Drittwood fork of White river. The surface is diversified. The eastern part is generally level, but in the west are hills of some elevation. The soil is good, and produced in 1850, 1,173,902 bushels of corn, 102,531 of wheat, 59,850 of coats, and 2,558 tons of hay. The county was named in honor of Gen. Joseph Bartholomew. Capital, Columbus. Pop. in 1850, 12,428.

oats, and 2,058 tons of nay. The county was named in honor of Gen. Joseph Bartholomew. Capital, Columbus. Pop. in 1850, 12,428.

BARTHOLOMEW, a bayou of Arkansas and Louisiana. It rises in Jefferson co., Arkansas, and entering Louisiana, empties into the Washita at Washita city. It is navigable by steamboats for 250 miles.

for 250 miles.

BARTHOLOMEW, SAINT, one of the 12 apostles, a native of Galilee, and generally supposed to be the same as Nathaniel, who is mentioned by St. John among the first disciples of Christ. According to Eusebius and other ancient authors, he preached the gospel in the Indies, under which name they generally include not only India proper but also Arabia and Persia. It is related that in the 3d century

mother, added to the contempt, undisguised and avowed—such was the general laxity of opinion in that ovil age—of the Catholic party, who swore "by the double cross of Lorraine, that they had a poor creature for their king!" Condé was, however, imprisoned for a time, but on regaining his liberty, soon had recourse to the sword; and France was, for many years, distracted by intestine wars, waged with the most remorseless barbarity, in one battle of which, that of Jarnac, the prince was shot in cold blood, after having surrendered, by the baron de Montesquiou, while, at that of Montcontour, the Huguenots were again so totally and irre-trievably defeated, that their party had abandoned all hopes, until the long strife was closed by the peace of St. Germain-en-Laye, on terms far more favorable than they had hoped to ob-tain. This peace was concluded in 1570, and completely blinded the suspicions of the leaders, and laid them open to the schemes of the im-placable and unforgiving Catharine, who had now, since the accession of the boy king, Charles IX., and her own regency, turned upon the Huguenots all the furious hatred which she had heretofore borne to the Guises. How far had heretofore borne to the duises. Zon and Catharine intended treason, from the beginning, cannot be ascertained; but the diabolical chair acter of the woman justifies the worst suspi-cions, and it is known that the duke of Alva and the cardinal Lorraine had both counselled an open and general massacre of the Protestants, throughout the kingdom, on several previous occasions, which had led to the almost universally received opinion that the court of Spain and that of Rome, also, were privy and consenting to the scheme, as it ultimately was effected. It appears, however, from evidence which hest historians receive with much consider best historians receive with much consideration,—the secret correspondence, namely, in cipher, of the papal nuncio at Paris, with the cardinal secretary at Rome,—that, so far from being cognizant of what was premeditated, the latter actually wrote to require information from his agent at the court of France, concerning the causes, authors, and circumstances of the massacre, after its occurrence; to which the nuncio Salviati's answer seems to give satisfactory proof, that the atrocity was only plan-ned on the night previous to its execution, subsequent to the failure of the attempt to as-As his letters were written privately for the in-struction of his own court, and in cipher, with-out any expectation, or probability, of their being made public, and as he repeatedly as-serts his certain conviction of the accuracy of his information, they must be taken into serts his certain conviction of the accuracy of his information, they must be taken into account in judging the event. If true, they relieve the French court, and especially Charles IX., of the deeply premeditated infamy, charged against them, of having devised the marriage of the beautiful but infamous Marguerite de Valois with Henry of Navarre, for the set purpose of collecting all the lead-

ers and gentry of the Huguenot party in Paris, ers and gentry of the Huguenot party in Paris, with no other object than exterminating them at one blow, while plunged unsuspecting in the festivities of that joyous occasion. This marriage took place on Aug. 18, 1572, and 4 days afterward, on the 22d, an arquebuse shot was fired at the admiral Coligni, from a window, by an assassin, employed by Catharine, named De Maurevel, who was afterward known by the sobriquet of Le tueur du roi, the king's killer. According to credible authority this killer. According to credible authority, this crime was intended to be the extent of the attack on the Huguenot party, at that moment; and was devised by the queen mother, on account of her jealousy of the vast influence acquired by the admiral over the weak and vacillating Charles, which was so great that the king called him his father, and that he had become in reality the most important personage in all the kingdom. The shot, though it took effect, was not mortal; and, as the Huguenot leaders were wrought to as the hughenot leaders were wrought to a desperate height of indignation, utterly re-fusing to believe that the assassin had been set on by the duke of Alva, without the privi-ty of the court, and using violent threats against the intended murderers, Catharine herself became seriously alarmed, and proba-belly not without some shadow of reserving bably not without some shadow of reason, in the expectation of a sudden insurrection of the Protestants, of whom all the principal gentry with their armed retainers were assem-bled at the capital, and contrived to communicate her apprehensions to the king, to the extent of making him believe that the admiral had designs on his life. The king visited Coligni at his lodging, the day after the attempt on his life, to which it is now nearly certain that he was not conserting, and swore process. that he was not consenting, and swore, proba-bly with a sincere intention, at the time, of doing so, that he would punish the author of the villany. But, on the same day, the queen persuaded him that the admiral and all the Huguenots were in a league to murder him, and, not without much difficulty, extorted from the king, on the morning of Aug. 24, the fatal order for a general massacre, on that night, to be preceded by the assassination of Coligni his lodging, which was to be announced by the tolling of the bell of St. Germain l'Auxerrois, whereon, as at a signal, the general slaughter was to commence. The execution of the plan was assigned to the duke of Guise and the Italian guards of the palace, supported by the assembled companies of the burghers, who were under orders to meet at the first stroke were under orders to meet at the inst stroke of the bell, wearing white crosses in their sallets and white napkins on their arms, in order to distinguish them from their victims. The city gates were shut and guarded, and all the Catholic inhabitants were ordered to illuminate their houses, both as a distinguishing mask and are means of giving sufficient light. mark, and as a means of giving sufficient light, by which to carry on the work of destruction. Orders were also despatched to the royal gov-ernors of the principal cities of all the provinces,

Huguenots, as lately as 1567 and 1569, there was no rising whatever. Catholics maintain that not one of the French bishops or clergy had any share in the massacre, and that the motives which prompted it were purely political and not religious. There were rejoicings and felicitations at Rome, and a To Deum sung by order of Pope Gregory XIII.; but the only information which was received at the Roman court, same through the French cardinal of Lorraine came through the French cardinal of Lorraine from Catharine de' Medici, and represented the king as having narrowly escaped from an insurion against his throne and life on the part of the Huguenots. A desperate struggle for ascendency had been going on for many years in France between the Catholics and the Huguenots, although the latter numbered only the -hundredth part of the population, in which all Catholic Europe took the deepest interest.

The great victory of Lepanto over the Turks was
just being celebrated at Rome, and the news
arrived there also of the accession of two powerful princes, the king of Navarre and the prince of Condé, to the Catholic side. In the midst of all these rejoicings, the French court sends its own version of the events of the 24th of August, and represents the assassination of the Huguenots as the necessary and legal punishment of a few conspirators engaged in a dark and dangerous plot against the king. In this point of view it was quite natural that the Ro-man court should rejoice in the defeat of the Huguenot scheme; and if afterward, when the facts were better known, they were not regard-ed with the horror they deserved by Catholic Europe, this is to be attributed to the violent commotions and excitements with which society and the minds of men were agitated. Since the passions of that time have given place to calm and deliberate judgment, all are agreed in condemning this desperate measure of the French court as a heinous political crime, the principal guilt of which must be laid at the door of that able but wicked princess, Catharine de' Medici, who lived only for her own personal ambition, and who would have been equally ready to are and who would have been equally ready to excite the religious animosity of the Huguenots against the Catholics, as she was to stir up the vengeance of the latter against the former, if it had answered her purposes better to do so.

The number of persons slain throughout France has been variously estimated at from 100,000 to less than 2,000. De Thou gives the number as 30,000, La Popelinière as 20,000, and Papire Masson as 10,000. The Calvinistic author of the Martyrology of the Huguenots, printed in 1582, estimates the number at first at 30,000; afterward, in a more detailed estimate, he brings it down to 15,168. Finally, after examining all the registers of individuals who perished, he can only find the names of 786 throughout all

France. The Catholic historian, Lingard, estimates the probable number at 1,500.

BARTIZAN, in Norman castellated architecture, a projecting balcony, to which access was had from the interior, by a small postern. It

was generally placed to command some assailable point, with the fire of its shafts and cross-bar bolts; and, after the introduction of gunpowder and wall-pieces, was provided with a platform to support a saker, falconet, or some such small piece of artillery. It had, always, perforated battlements for the defence of the archers and cross-bow men, through which they could shoot at their ease, with deliberate ain; and was furnished with machicolations, or arched tunnels, opening downward, through which scalding or burning liquids, and sometimes Greek fire could be rained down, from caldrons and furnaces built into the masonry for the purpose, on the heads of the assailants, in case of their forcing the outworks and making good their position at the foot of the main walls, within the line of the cross-fire.—These bartizans writing the line of the cross-fire.—These partizans were always so placed as to be themselves easily commanded in ease of an enemy making himself master of one by escalade. They add much to the beauty and lightness of the custe architecture, by the aerial character of their perforated defences, their lofty position, and the graceful flying buttresses which sometimes

the graceful flying buttresses which sometimes support them.

BARTLEMAN, JAMES, English base singer, born in Westminster, Sept. 19, 1769, died April 15, 1821. At an early age, he was received into the abbey choir of Westminster, under the mastership of the celebrated Dr. Cooke. His voice, while it remained a soprano, was low, approaching to the contralto, but distinguished by fulness strength, and retundity of tone. ed by fulness, strength, and rotundity of tone. In 1788, his name first appeared among the base chorus at the concerts of ancient music. In the course of one season, he revived "Let the dreadful engines," "Thy genius, lo!" "Ye twice ten hundred Deities," and "Hark, my Daridcar," of Purcell, and continued to sing them with unabated applause until he sang no more. It was not alone by the superior compass of his voice that he soared above his compass of his voice that he soared above his predecessors and competitors—his singing was eminently dramatic, intellectual, and passionate. He was buried in the cloister of Westminster abbey, where his grave is marked by a modest inscription, prefaced by the first notes of Pergolesi's air, "O Lord! have mercy upon me." BARTLETT, ELISHA, an American physician and author, was born in Smithfield, R. I., in 1805, and died in the house where he was born, July 18, 1855. Without a collegiate education he grad-

1855. Without a collegiate education he graduated from the medical department of Brown university in 1826, spent a year in Europe, and commenced practice in Lowell, Mass. Becoming favorably known to the medical profession, he delivered the course of lectures on not helper. ing favorably known to the medical profession, he delivered the course of lectures on pathological anatomy at the Berkshire medical institute in Pittsfield, Mass., in 1832. In 1836 or 1837 he was elected the first mayor of Lowell; in 1839 he delivered medical lectures at Dartmouth college; in 1841 he took charge of the medical department of the Transylvania university, Lexington, Ky.; in 1844 took the chair of theory and practice in the university of Marybusy with the affairs of the town and of the college. In 1799 he delivered a poem on physical property and said to touch upon the traits of individuals at the time. To the edition of this poem, published in 1823, were appended a number of "Aphorisms on Men, Principles, and Things," the results of his various experience. The same year he delivered a Fourth of July oration at Boston, and afterward recited a poem, entitled the "New Vicar of Bray," which obtained considerable celebrity. He next attempted the practice of law and of politics in the state of Maine, was elected to the state legislature, and nearly was elected to the state legislature, and nearly secured an election to Congress by his active exertions as a speaker and newspaper writer. He then practised law at Portsmouth, N. H., and finally closed his improvident life, a burden

and finally closed his improvident life, a burden to his friends, at Boston. (See Duvckinck's "Cycloptedia of American Literature.")

BARTLETT, JOSIAH, M. D., governor of New Hampshire, born in Amesbury, Mass., in Nov. 1729, died May 19, 1795. He commenced the practice of medicine in 1750, at Kingston, and established a reputation, during the prevalence of the angina maligna in 1754, by treatment with Peruvian bark, in opposition to the usage of other physicians. He received several appointments from the royal governor John Wentworth. ments from the royal governor John Wentworth, but was deprived of them in 1775, for being a zealous whig. In 1774 he was appointed to the command of a regiment of militia. Being Being chosen delegate to the continental congress, he was the first who voted for, and the first, after the president, who signed the declaration of independence, his name being first called as rep-resentative of the most easterly province. He resentative of the most easterly province. Its was appointed chief justice of the common pleas in 1779, justice of the supreme court in 1784, and chief justice in 1788. He was an active member of the convention called to adopt the control of the convention called to adopt the convention called to adopt the convention called the department of the called th the federal constitution in 1788. In 1790 he was president of New Hampshire, and in 1793, was chosen the first governor under the new state constitution. He was also president of the medical society established in 1791, by his exertions. In all his various offices his duties

were ably and faithfully discharged.

BARTLETT, Josian, physician, born in
Charlestown, Mass., in 1759, died March 5
1820. He studied medicine in the military hos March 5, pital in 1775, and served as surgeon's mate till 1780, and afterward went 2 voyages as surgeon to ships of war. He then settled at Charlestown, where he had an extensive practice, and was representative, senator, and councillor. He delivered many orations, medical, political, and titerary, and published various papers in the transactions of the medical society, and in the "N. E. Medical Journal."

BARTLETT, WILLIAM, one of the founders and the principal benefactor of the theological seminary at Andover, Mass., born at Newbury-Lort Jun 31 1748 died in the same town Ech 8

port, Jan. 31, 1748, died in the same town, Feb. 8,

1841, having resided there throughout the whole of his long life. His minority was passed in a humble occupation, but before the revolutionary war he had entered upon a career of mercantile enterprise, and at its close, with the revival of commerce he was in a situation to take advantage of the favorable opportunities of the times. The deficiencies of his education vere supplied by shrewdness and caution, and his success procured general confidence at home and abroad. While his business was constantly increasing, his personal and family expenditures were on the most economical scale, so that his wealth became very great. He loved to employ it as steward for the needy and in the cause of religion and morals. Beside liberal contributions in aid of the temperance reformation, the foreign missionary enterprise, and the education of young men for the ministry, he gave \$30,000 toward the foundation of the Andover theological seminary, endowed a professorship, and built a house for the incumbent, watched over the institution through life, and did every thing that money could do to further its objects.

BARTLETT, WILLIAM HENRY, English artist and author, born in Kentish-Town, Middlesex, March 26, 1809, died at sea, between Malta and Marseilles, Sept. 13, 1854. He was apprenticed in 1823 to John Britton, the antiquary, for whom he made many sketches and drawings from nature, and from the different Engion and morals. Beside liberal contributions in

for whom he made many sketches and drawings from nature, and from the different English cathedrals and cities. He acquired great skill and facility as a draughtsman, and journeyed not only over England, Scotland, Ireland, and Wales, but over the greater part of Europe, and also explored the East in 1834-'35, again in 1842-'45, the third time in 1853-'54. He visited America in the years 1836-'37-'38, and in 1841 and 1852. Nineteen large 4to volumes, containing about 1,000 plates, engraved from his drawings, were published, describing many of his voyages and travels. The letter-press of these was supplied by Dr. W. Beattie, the biographer of Thomas Campbell, and by Mr. Nathaniel P. Willis, who wrote the portion relating to America. Mr. Bartlett was, lowever, himself the author as well as the artist Nathaniel P. Willis, who wrote the portion relating to America. Mr. Bartlett was, however, himself the author as well as the artist of "Walks about Jerusalem," 1844; "Topography of Jerusalem," 1845; "Forty Days in the Desert," 1848; "The Nile Boat," 1849; "The Overland Route," 1850; "Footsteps of Our Lord," 1851; "Pictures from Sicily," 1852; "The Pilgrim Fathers," 1853; and "Scripture Sites and Scenes," &c., 1855—the last published after his death, which occurred on the Mediterraneau, on his return to England. He was a literal and on his return to England. He was a literal and faithful, rather than an imaginative and fanciful

artist. BARTOL, Cyrus Augustus, an American author and Congregational clergyman, born at Freeport, Me., April 30, 1813, graduated at Bowdoin college, 1832, completed his theologi-cal education at the Cambridge divinity school, 1835, and settled as colleague pastor with the Rev. Charles Lowell, D. D. of the West church in Boston, March 1, 1837. His principal

Medica of the United States," and a work entitled "Flora of North America."

BARTON, BERNARD, commonly called "the Quaker poet," born near London, Jan. 31, 1784, died at Woodbridge, in Suffolk, Feb. 19, 1849. In 1810 he became a clerk in a bank at Woodbridge, where he officiated almost to the day of his death. In 1812 he commenced authorship, with "Metrical Effusions." In 1820 another volume of "Poems" appeared, but his reputation was principally established by some lyrics which he contributed, from 1821 to 1824, to the "London Magazine," then in its prime. His "Napoleon and other Poems" appeared in 1822; "Poetic Vigils," in 1824; "Devotional Verses," in 1826; and a great number of pieces in the annuals and magazines. No doubt the fact of his being a member of the society of Friends first excited public interest in his favor; but his poetry, though deficient in force, was earnest, as well as graceful, with a pure religious tone. During the ministry of Sir Robert Peel, he was placed on the pension list for £100 a year for life. He died suddenly of a heart affection. After his death his daughter collected his fugitive poems, which she prefaced with a well-written biography.

with a well-written biography.

BARTON, ELIZABETH, called the holy maid of Kent, celebrated as a religious visionary employed by the adherents of Queen Catharine to excite the English people against the divorce of Henry VIII. from that princess. Richard Masters, vicar of Aldington, and Bocking, a canon of Canterbury, spread abroad the belief that in certain paroxysms of delirium, to which she was subject, she was inspired by God. Her pretensions were countenanced for a time even by such men as Sir Thomas More and Bishop Fisher. At the instigation of Bocking she became a nun, and led a life of such apparent devotion as to give color to her professions of intercourse with angels and the Virgin Mary. During her convulsions she often demounced the proposed divorce of the king and queen, and prophesied that if it were persisted in, Henry would not wear his crown 7 months. These revelations produced such excitement among the people, that she and her accomplices were ordered before the star chamber, and, after a full confession of the conspiracy, were condemned by that tribunal to make a public recantation. But the partisans of the queen laboring to induce them to retract their confession, they were found guilty of high treason, and executed at Tyburn in 1534.

BARTON, THOMAS, an Episcopal clergyman, born in Ireland about 1730, died at New York, May 25, 1780. He graduated at the university of Dublin, and in 1753 married, at Philadelphia, a sister of Rittenhouse, the celebrated mathematician. In 1754 he was ordained in England, and in the following year came to America as a missionary. He accompanied, as a chaplain, the unfortunate expedition to Fort Du Quesne, in 1755, which resulted in the disastrous defeat of Braddock. For many years

he was rector at Lancaster, Penn., but, in 1778, was obliged to leave that place on account of his adherence to the royalist party. He then removed to New York, where he died not long after. One of his children was Benjamin Smith Barton, the naturalist.

BARTON, WILLIAM, a lieutenant-colonel of the American army during the revolution, born about 1747, died at Providence, R. I., in Oct. 1831. He was distinguished especially for his exploit in capturing Major-general Prescott near Newport, in July, 1777. Barton marched, by night, with a body of men to the house where Prescott was sleeping, and, with the assistance of a negro, who broke in a panel of the door with his head, made his way into the chamber of the British officer, and took him prisoner. For this exploit he received from congress the gift of a sword, and a tract of land in Vermont. In consequence of some illegality in the transfer of a portion of this land, Barton was involved in difficulties, and thrown into prison, where he remained several years, until

was involved in dimenties, and thrown into prison, where he remained several years, until he was released, in 1825, by the aid of Lafayette. BARTRAM, John, an American botanist, born at Marpole, Chester co., Penn., in 1701, died in Sept. 1777. His grandfather was one of the companions of William Penn. He himself supported a large family by his industry as a farmer; but, by unremitted application, he mastered the rudiments of the learned languages, and made such proficiency in botany that he was pronounced by Linnæus the greatest natural botanist in the world. He made excursions through many regions of North America at a time when they were covered with forests, and he was the first to describe particularly their natural productions. Thus, in 1743, he visited the shores of Lake Ontario, and, in 1765, he explored the region of the river St. John's in Florida, and in both of these excursions he collected many beautiful plants and trees, which he sent to enrich the gardens of Europe. He was supplied by Linnæus, Sir Hans Sloane, and others, with books and apparatus, and he, in return, sent them specimens of new and curious American plants. He founded on the bank of the Schuylkill, a few miles below Philadelphia, the first botanic garden in America, where he cultivated beautiful and rare American, as well as exotic, plants. At the time of his death he was a fellow of several foreign learned societies, and bore the title of American botanist to George III. of England. He published an account of his observations during his American travels, and contributed to the British philosophical transactions several papers on scientific subjects.

BARTRAM, WILLIAM, son of the preceding, a naturalist, botanist, antiquary, and traveller, born in 1739, at the botanic garden, Kingsessing, Penn., died July 22, 1823. He commenced life as a merchant; but accompanied his father in a journey into East Florida to explore the natural productions of that country, and there settled on the banks of the river St. John's. In 1771 he returned to Kingsessing, but soon after,

the next. On the island of St. Helena is a famous natural columnar basaltic structure called the chimney, which is more than 60 feet high, and is formed of horizontal six-sided prisms, with angles somewhat rounded. They appear like so many logs of wood piled up.

like so many logs of wood piled up.

BASCHI, MATTEO, a Franciscan friar, and the first general of the religious order of Capuchins, born in the former duchy of Urbino, toward the end of the 15th century, died at Venice in 1552. He was an inmate of the convent of Montefulcone, when he believed that a spirit appeared to him during his sleep, dressed in a strange, peculiar garb, urging him to adopt a similar style of dress. Complying with the request of his supernatural visitor, he presented himself in the new dress to Pope Clement VII., and submitted to him that the great St. Francis had always been dressed in the same manner, namely, a coarse garment without any scapulary, and a capuche, or hood, shaped like a sugar loaf. The pope afterward commanded all Franciscan friars to adopt the same costume. But Baschi had to share the fate of most reformers. He was put into prison by the anticapuche friars, and for some time the cry in the Franciscan convents was, "Down with the Capuchins!" The excitement ran high, but eventually the capuche was triumphant, Baschi was released from prison, and the new dress generally adopted. It consisted of a large robe of flannel of a light chestnut color, tied with a girdle, and covered with a small cloak of the same material, with an immense hood, fitted to the cloak. Hence the name of Capuchin.

same material, with an immense hood, fitted to the cloak. Hence the name of Capuchin.

BASE. I. In architecture, in general, any body which bears another. It is applied particularly to the lower part of a column on which the shaft is placed. Its form varies in the different orders, and in the Greek Doric there is no base, the columns standing immediately upon the floor of the portico. II. In chemistry, a term used in 2 applications: one limited to those bodies which combine with acids to form salts, and which may be replaced by other bases; and the other, more general, designating the leading constituents of compounds. In the latter and more popular sense sods is the base of the salt, sulphate of sods, and sodium of sods, the oxide of the metallic base, and this is called the radical. The radical of the base is the basic radical, and that of the acid, as sulphur of sulphuric acid, is the acid radical. Oxygen, sulphur, selenium, and tellurium, act sometimes as acids and sometimes as bases; they are hence called amphigene bodies (both-formers). Alkalies and some other metallic oxides were formerly regarded as comprising all the strictly defined bases; but to these are now added a large class of organic substances existing in plants, which, with acids, form salts, and may be separated by the greater affinity of the acid for stronger bases. These vegetable bases or alkaloids consist of oxygen,

hydrogen, and carbon in comoination with a certain proportion of nitrogen. The constant presence of this element has led to the supposition that the salifiable properties of these com-pounds may be attributed to it. The vegeta-ble bases are usually in white crystals. The few animal bases or alkalies are volatile, liquid, and of oily consistency. The powerful medici-nal properties of plants reside in the bases extracted from them. A crystal of aconitine contains the concentrated strength of numerous plants of the monkshood; and one of morphia combines that of a large quantity of opium; as one of quinine does the same of Peruvian bark. III. In geometry, that side of a solid or of a plane figure, on which it is imagined to stand. In other departments of mathesis a base is a number assumed as the foundation of a scheme of numbers, or of calculated tables. A base line in geodesy is a line actually measured, from which all the other distances in the survey are calculated,—the angles of the triangles alone being measured. In the U. S. coast survey, under Prof. A. D. Bache, great improvements have been made in modes of measurement, and survey, leaves of S. or 6 miles in length here, been several bases of 5 or 6 miles in length have been measured. The measurement is microscopically accurate, and made at the rate of about 500 yards per day. IV. Bass, or Bass, in music, the lowest or gravest part on which the whole superstructure of the composition rests. Hence it is considered by some the fundamental or most important past while others recent the it is considered by some the fundamental or most important part, while others regard the melody as such. When applied to the voice, it denotes the lowest species of singing voices, the usual compass of which is from G or F below the base staff to D or E above it. It is also usual to call the lowest tones of any instrument the base.—Base clef, the F clef placed on the 4th line of the staff.—Continued base, a term employed to denote a continued, uninterrupted base, and also one that is figured for the purpose of indicating the harmony connected with it, and of which it is the foundation.—Double base, called also the contra base, the largest and deepest toned of the stringed instruments of the violin species. It formerly had three thick strings of catgut, to It formerly had three thick strings of catgut, to which musicians have added a fourth, and is played by a bow. Its deep and powerful tones render it the most important instrument in the orchestra for sustaining and enriching the harmony, but it is also capable of being used with effect as a solo instrument.—Figured base, a base which is furnished with figures to represent the accompanying harmony. Sometimes the term is synonymous with gurative base, which is represent the relative base, which were with more freedom than the plain singlemoves with more freedom than the plain, simple style known as the canto fermo or plain chant.—Fundamental base, the root or fundamental note of a chord. The term is sometimes applied to a series of notes to denote the succession which constitute the several individual fundamental notes of the respective chords. (See Thorough Base.) V. In tactics, a well-guarded region or locality which serves as

Protestants, are purely Teutonic, and speak German, though a dialect which is difficult to understand from the admixture of obsolete German and modern French words. The city of Basel was founded by the Romans and by them called Basilia or Basiliana. Destroyed in the wars between the Romans and Germans, it was rebuilt by the German emperor Henry I. (924-'33), when it became the residence of a bishop, and belonged for some time to Burgundy, but after 1032 to the German empire. The territorial dominion belonged and pire. The territorial dominion belonged party to an imperial bailiff, partly to the bishop, who at the same time was bishop of Solothurn, Zug, Lucerne, Bern, Aargau, and Thurgau, partly to some noble families, and partly to the patrician The territorial dominion belonged partly some noble lamines, and party to the patrician families of the city. The latter gradually became sole proprietors until they joined the Swiss confederation; the nobility emigrated or were embodied among the patricians, and the bishop emigrated with his chapter to Solothurn, when after 1519 the city confered with a proper when after 1519 the city embraced with ardor the reformed faith. Thus the whole political sway was left with the patricians and trading corporations, who in time became omnipotent over the peasants, and reduced them and the profession of the peasants which the latter often but in vain rebelled. The policy of the first French republic broke this yoke and gave social equality to all classes, while a contribution of 11,000,000 francs was levied upon the city. Under the French sway Basel shared the fate of the other Swiss cantons, until the resto ratio of 1814 brought back to the patricians a part of their ancient prerogatives, and, in 1815, embodied 5 villages with 75 sq. miles, formerly the property of the bishop, in the canton. The dissatisfaction of the country on this account led to a separate organization of the latter in 1831 and to several bloody bettles between the 1831, and to several bloody battles between the soldiery of the city and the peasants, until the Swiss confederation intervened and acknowledged the division of the canton into 2 half canedged the division of the canton into 2 hair can-tions. Since that time the constitution of the country has made rapid strides toward a per-fect democracy and material improvement, and even that of the city has been reformed after modern republican ideas.—The city canton consists of Great Basel on the left bank, litthe Basel, and villages on the right bank of the Rhine, which are connected by a bridge 715 feet long, both portions of the city being fortified. It has alone of all Swiss cantons, a standing army of 200 men, sends one rep-resentative to the national council has a a standing army of 200 men, sends one representative to the national council, has a well-regulated finance, with 1,500,000 Swiss francs of debt, and about as much public domain, and about half as much public expenditure annually, of which nearly one-fourth is spent for public schools. A university, founded in 1459 by Pope Pius II., with a considerable library and many valuable manuscripts, a cabinet of coins, botanic garden, and a museum of natural science, is in a languishing state, little frequented and less celebrated, although it was famous during the reformation. There are many

benevolent institutions, of which the missionary establishment and society are known all over the world; the picture gallery is rich in works of the old German school, particularly by Schongauer, Holbein, and Manuel Deutsch.—The splendid cathedral, erected in 1010-'19 by Henry II., contains the tombs of Anna, the wife of Rudolf of Hapsburg, Erasmus of Rotterdam, Œcolampadius, and Bernouilli. Basel is the birthplace not only of the family of the great mathematician Bernouilli, but also of Euler, the astronomer, and of Buxtorf, the Hebraist. A treaty of peace between the French republic and Prussia was signed at Basel, April 5, 1795, and between the former government and Spain, July 22, of the same year. The Spanish prime minister, Godoy, received the title of "Prince of the Peace," on account of this treaty. The population of the city, which was much larger in the middle ages, was in the 14th century so terribly decimated by the "death of Basel," or "black death," that it never recovered its ancient proportions.—The country canton, the youngest of all Swiss cantons, sends 2 members to the national council, and has the most liberal constitution of all. All privileges are abolished; every male inhabitant upward of 20 years of age is a voter and liable to serve in the militia; every law may be vetoed by a majority vote of all citizens. There is only one legislative body, the land council, consisting of one chamber, and selecting an administrative board of 7 members. A revision of the constitution in 1838 allowed to the election districts a participation in the choice of the administrative council, shortened the terms of almost all offices, and made the judiciary more dependent on the popular choice. The yearly expenditure is under 600,000 francs. The canton has no debts; it has a mortgage bank, established by the state in 1849, a good school, and an excellent military system. Capital, Liestal,

an excellent military system. Capital, Liestal. BASEL, Council of, one of the coumenical councils of the Roman Catholic church. Properly speaking, the councils of Basel, Ferrara, and Florence, constitute but one council, of which several sessions were held in each of these cities, and which is usually called the council of Florence, because the most important questions were definitively settled and the council, during its sessions at Basel, until its transfer to Ferrara in 1437, was acknowledged as occumenical by Eugenius IV., and its decrees were confirmed by him, with the exception of those which interfered with the prerogatives of the holy see. After the transfer to Ferrara, a certain number of prelates still continued to hold sessions at Basel, but from this date the council of Basel is regarded as a conciliabulum, or schismatical assembly. During its occumenical sessions, the council of Basel made no decisions of doctrine, but only of discipline. The principal reasons for assembling a general council at the period referred to, were to effect the reconciliation of the Greek

questioned and universally acknowledged, in the same way that the councils of Pisa and Constance had acted, in an extraordinary emer-gency, and toward popes of doubtful title. It is not supposed, however, that they were govgency, and toward popes of doubtful title. It is not supposed, however, that they were governed by any sentiment of hostility to the Roman see, or any desire to overthrow the supremacy of the pope, but by a desire to carry out at once some measures of reformation, evidently necessary, and which they thought could best be done by a general council. There were several men among them who are highly praised several men among them who are highly praised for piety and zeal, and one of these was the celebrated Æneas Sylvius, who has written the history of the council, and who afterward became history of the council, and who afterward became Pope Pius II. Thomas de Sargani, afterward Pope Nicholas V., was also present at this council. During the period of the suspension of the council by Eugenius IV., the prelates, who, after a time, increased to the number of 80, framed several decrees, declaring the superiority of a general council to the pope, the want of power in the latter to dissolve or transfer it, citing Eugenius to appear within a certain time, &c. After the revocation of the bull of transfer, all these edicts were revoked on the side of the council, and the legitimate sessions recommenced under the presidency of sessions recommenced under the presidency of the legates. The declaration of the superiority of a general council to the pope was renewed, however, after the reconciliation, though the legates refused to be present, or sanction in any way the act. A number of decrees of reformation were framed, which are all the acts of the council ever recognized as truly synodical, and as such approved by the holy see. Great efforts were made to enter into negotiations with the Greek emperor, though without success. Finally, Eugenius IV., finding Cardinal Julian, the principal sovereigns, and the Greek emperor, elegative dispressed to enter into his views on altogether disposed to enter into his views, on June 19, 1437, dissolved once more the council of Basel, and transferred the sessions to Ferrara. There had been, from the outset, at Basel, but few prelates and bishops of high rank, and a great number of the inferior clergy, all of whom had been admitted to a vote, in violation of the canons. The cardinals and the principal portion of the prelates of rank, obeyed immediately the mandate of the holy see, and repaired to Ferrara. The patriarch of Aquileia, the archbishops of Arles and Palermo, with a few other prelates, and several hundred priests, remained, and continued the sessions of their remained, and continued the sessions of their so-called council, from this time regarded as a schismatical assembly. They declared several propositions respecting the superiority of general councils to be articles of faith, excommunicated the council of Ferrara, deposed the pope, and elected an anti-pope. Their choice fell upon Amadeus VIII., formerly duke of Savoy, a prince renowned for piety and literary taste, who had resigned his crown some years before, and was living in a half monastic, half before, and was living in a half monastic, half literary retirement, at Ripaille, with several other gentlemen of similar tastes. He was

elected in 1489, took the name of Felix V., and continued to bear it during 10 years, after which he abdicated it, and submitted himself to the reigning pope, Nicholas V., who made him cardinal. The council of Basel continued its him cardinal. The council of Basel continued its sessions during all this period, and, finally, the débris of the council, which had adjourned to Lausanne, put an end to itself by electing the reigning pontiff, Nicholas V., pope.

BASEMENT, in architecture, the base or lowest story of a building. It should have externally an appearance of strength, but its height and proportion to the rest of the edifice

height and proportion to the rest of the edifice are very various, depending on the character of the apartments on the ground floor.

BASEVI, Groror, English architect, born at Brighton, 1794, died at Ely, Oct. 16, 1845. He was 6 years with Sir John Soane, whose pupil he was, and subsequently travelled for 8 years in Greece and Italy. In 1819 he commenced practice in London, on his own account, with great success. Belgrave source, in London. practice in London, on his own account, with great success. Belgrave square, in London, was erected from his designs. He was joint architect with Mr. Sidney Smirke of the Conservative club-house, St. James's street, a beautiful building. His best and greatest work was the Fitzwilliam museum, at Cambridge, described as "one of the most ornate, yet chaste and effective classical buildings erected in England during the present century;" this was finished under the direction of Mr. Cockerell. Among the edifices built or restored by Mr. Basevi are the churches in the early English style at Twickenham and Brompton, the Norman church at Hove, near Brighton, and St. Mary's hall, at Brighton, in the Elizabethan style. Having gone to inspect the west bell tower of Ely cathedral, then being restored under his direction, he accidentally fell through an aperture, a distance of 40 feet, and was an aperture, a distance of 40 feet, and was killed on the spot. BASHAN. Taken with Gilead, Bashan

formed the trans-Jordanic division of Palestine. tt was a territory of high table-land that lay east of the river, and was famous for the fertility of its soil. Here were the nomadic tribes of Reuben and Gad, and the half tribe of Manasseh, whose life was so uncivilized that they never dwelt in houses, but only in tents. were the fat pastures which raised the famed "kine of Bashan," and the oaks which vied with the cedars of Lebanon, and are so celebrated in the fate of Abasham. brated in the fate of Absalom. The trans-Jordanic territory was conquered in the bloody battle of Esdrei from the Amorites, and Og, the king of Bashan and Sihon, utterly destroyed. Later, it was captured from Israel, after the revolt of the ten tribes, by Hazael, the Syrian king, and afterward recaptured to the Israelites by Jeroboam II. In Bashan, Golan, one of the cities of refuge, was situate. The northern cities of refuge, was situate. The northern boundary of Bashan is mount Hermon, and its southern the brook Jabbok, while it extended from Jordan, on the west, to the mountains of Gilead and Edom on the east. This trans-Jordanic territory has an interest in scripture history as a

BASIL THE GREAT, SAINT, archbishop of Casarea, near the close of the 4th century, one of the most learned theologians and illustrious orators of the Christian church. He was born at Casarea, A. D. 328, died Jan. 1, 379. His father and mother were St. Basil the elder, and St. Emmelia. His father belonged to a very noble and wealthy family of Pontus, which had for a long time been Christian. He had 9 brothers and sisters, all of whom, according to the testimony of their intimate friend St. Gregory Nazianzen, were remarkable for sanctity, and 8 of whom are canonized, viz., St. Gregory Nyssen, St. Peter of Sebaste, and St. Macrina. The latter aided her parents in the education of their numerous family. Basil was sent at an early age to be brought up by his grandmother, who lived on an estate, near New Cæsarea, in Pontus, and his education was superintended by his father, who resided usually in Pontus, until his death, which occurred during the minority of Basil. After his father's death, he continued his studies at the best schools in the cultivated city of Cæsarea, where he distinguished himself greatly. From Casarea he was sent to self greatly. From Cassarea he was sent to prosecute his studies at Constantinople. From Constantinople he went to Athens, chiefly with the view of acquiring an exact and elegant Greek style, and perfecting himself in the art of oratory. It was in this that he chiefly excelled, as well as in the kindred art of logic, and Erasmus calls him the greatest orator that ever appeared on the earth. He applied himself also to philosophy, natural science mediators. self also to philosophy, natural science, medi-cine, poetry, and the fine arts. During his classical career he was one of the most ardent classical career he was one of the most ardent advocates of the study of classical literature and eloquence in Christian schools. At Athens he met with a former friend of his, afterward his biographer and eulogist, St. Gregory of Nazianzus. Their studies, tastes, moral and religious principles, were the same, and a warm friendship sprung up hat warm them proved the same. ship sprung up between them, never afterward interrupted, furnishing one of the most beauti-ful episodes of ecclesiastical history. The morals of these two youths, as well as their attention to their religious duties, were extremely strict. They were not, however, on this account un-popular among the students and inhabitants of this gay and licentious city, but were the objects of universal esteem. Basil especially was looked upon as an oracle both of divine and human science, and the literary men of Athens, both teachers and students, did every thing in their power to retain him among them. was, however, determined to devote himself in some way to the service of religion among his own countrymen, although he does not appear to have thought as yet of the priesthood. returned to Cosarea, in the year 355, being then 26 years of age, and opened a school of rhetoric with brilliant success. It was just at this juncture, however, that the desire for monastic solitude and for a life of poverty and self-abnegation aprung up in his bosom. This desire was fostered by his sister St. Macrina, and his friend

St. Gregory Nazianzen, and soon ripened into a fixed resolution. He divided the principal a fixed resolution. He divided the principal part of his property among the poor, and commenced a secluded life, devoted to prayer and penance. In the year 357 he undertook a journey through Syria, Mesopotamia, and Egypt, for the purpose of visiting the most celebrated anchorets and hermits, and the chief monasteries. In 358, he returned home and was ordained lector by Archbishop Dianius, by whom he had been baptized. This bishop adhered to the faith of Nice, but through weakness had acted with the Eusebians and subscribed the creed of Rimini. Basil was deeply grieved at this, and after a time refused to grieved at this, and after a time refused to communicate with Dianius, although at the death of the latter, he was reconciled to him, on his protesting that he had always held the Catholic faith. During the same year, he retired to the country seat of his grandmother in Pontus. His mother and sister had already Pontus. His mother and sister had already founded a female convent in he neighborhood, on the bank of the river Isis, in which his sister was superior. Basil now founded a monastery on the opposite bank, and in the course of time other affiliated monasteries. He remained in his own convent as superior for 4 years, when he yielded his place to his brother St. Peter of Scheste. Sebaste. After his election to the episcopate, he continued to watch over these religious homes, he composed rules and spiritual treatises for them, and the principal part of the religious in the East are hence called Basilians. In 359, during a great famine, Basil sold the remaining portion of his property for the relief of the sufferers. One thing was wanting to complete his happiness, the society of his friend Gregory. He wrote to him urging him to join him, which he accordingly did, and has left an interesting account of the life they led in common, in a little hut with a barren garden spot around it, where they found exercise and diversion in where they found exercise and diversion in cutting stone, carrying wood, planting flowers, and making little canals to irrigate the sandy soil. In 362 Basil went back to Casarea and took with him a number of his religious brethren, it seems, to found a cloister. Julian the Apostate was now emperor; he had been Basil's fellow-student at Athens, and he now sent a hypocritical invitation to him to come to his court. This invitation was declined, and was followed by another, which was accompanied by an order to pay 1,000 pounds of gold to the treasurer, or be dragged through the city. Basil replied in a very bold and severe style to his old comrade, who threatened to put to his old comrade, who threatened to put to death both Basil and Gregory on his return from the Persian war; but in which he found his own death. Basil now commenced a new epoch in his life. Thus far he had been a simple monk, in minor orders; he now, in his 35th year, commenced his career as a priest, having her analysis of her priest, having been ordained by Eusebius, the successor of Dianius. This bishop, for some reason, soon dismissed Basil from the high post among his clergy which he had assigned him. Whatever BASIL 701

their victorious career there till Nicephorus Phocas, grandfather of the emperor of that name, was appointed to the command of their name, was appointed to the command of their army; but in one year from the date of that appointment, the Arabs were completely expelled from that peninsula. While these events were happening in Italy, the peace of the palace at Constantinople was troubled. Basil and his son Leo, who succeeded him on the throne, had hitherto been on the best terms with each other, but suddenly the manner of the father changed and became cold, reserved, and distrustful. A courtier, named Santabaren, had roused the emperor's suspicion and jealousy of the prince by hinting that Leo was contemplating conspiracy and crime. The young man stood in imminent danger of being put to death. At the eleventh hour, however, Basil discovering that he was innocent, restored him to his former place in his affections, and punished the calumniator. The emperor died in consequence of a wound received from a stag while hunting a faw weeks before. He made while hunting a few weeks before. He made a collection of some of the laws of the eastern empire which was entitled the "Basilican Conempire which was entitled the "Basilican Constitutions," and wrote a small work on the moral, religious, social, and political duties of sovereigns, which he dedicated to his son. This work is still extant; the best edition of it is that of Dransfeld, published at Göttingen in 1674, in 8vo.—Basil II., emperor of the East, and eldest son of Romanus II., was born A. D. 958, died in the winter of 1025. Romanus had decreed that his infant sons, Basil and Constantine, should reign together under the guardianship of their mother. The rights of Constantine, should reign together under the guardianship of their mother. The rights of the children were, however, long disregarded. Immediately after the death of Romanus their mother married Nicephorus Phocas Secundus, and raised him to the throne, nor did the brothers succeed to the sceptre of their father till A. D. 976. Constantine almost from the commencement of his reign care, him. from the commencement of his reign gave himself up to a life of luxury and licentiousness in Constantinople, and the whole administration of the government soon devolved on Basil. The reign of Basil II. was one uninterrupted series of domestic and foreign wars. Immediately after his accession, the revolt of Sclerus threatened him with ruin, but the rebel was at threatened him with ruin, but the rebel was at length defeated, and forced to take refuge among the Arabs.—Otho II., emperor of Germany, who had married Theophania, the sister of Basil, having laid claim to Calabria and Apulia, in Italy, in right of his wife, and attempted to seize those provinces, the latter excited the Arabs of Sicily against him, who vanquished Otho in a great battle, and compelled him to seek safety in flight. Basil was repeatedly engaged in war with Almasin, caliph of Bagdad, from whom he made valuable conquests, and with his old allies, the Sicilian Arabs. But his most important war was that which resulted in most important war was that which resulted in the conquest of Bulgaria. This war broke out in 987, and lasted, with few intermissions, till 1018. In the first years of it, Basil conquer-

ed a considerable portion of the south-western division of that kingdom. But in 996, Samuel, its king, overran all Macedonia and Thessaly, laid siege to Thessalonica, and penetrated into the Peloponnesus. During his homeward march, however, he was encountered by Basil on the banks of the Sperchius, and defeated. In 999, Nicephorus Xiphias, the general of Basil, captured 2 of the most important strongholds in Bulgaria proper; and in 1002, the indefatigable Samuel again invaded Macedonia and Thrace, and even took Adrianople, but, as in the former case, he was overpowered and driven back to his own kingdom. Basil gave his enemies such an overthrow at Zetunium that they never recovered from the blow. On this occasion the emperor showed no mercy to the vanquished. Of 15,000 prisoners he cruelly ordered the eyes of all to be put out, save those of 1 of every 100, who was to guide his 99 unfortunate brethren in arms to their native land. The cries of these poor wretches, as they approached the camp of their countrymen, had an effect on the Bulgarian monarch which the shouts of his foes could never produce—he fell to the ground insensible, and expired on the 3d day after. The conquest of Bulgaria was, however, not entirely completed till 1018, when it became a Greek province and subjected to the rule of a Greek governor. In his latter days, Basilius contemplated the expulsion of the Arabs from Sicily; but in the midst of his preparations for it, he was seized with an illness which terminated his existence. To expiate the sins of his youth, Basil wore the hair shirt of a monk beneath his imperial robe, and lived the abstemious life of an ascetic. Notwithstanding his incessant wars, he accumulated from his surplus revenue during his reign the enormous fortune of £8,000,000 sterling.

BASIL, a Bulgarian physician, the founder

BASIL, a Bulgarian physician, the founder of a religious sect called Bogomiles (Slavonio Bog, God, and milotte, have mercy on us), who was burnt alive at Constantinople, in 1118. He repudiated marriage, and favored the communistic principle in regard to intercourse between the sexes. The Bogomiles believed that before the birth of Jesus Christ, God had a son of the name of Sathaniel, who revolted against his father, but who, after having been expelled from heaven, established himself on earth, where he introduced himself as a god to Moses, who therefore came to the Mosaic law through a spurious channel. Jesus Christ, they say, was sent to the world for the purpose of destroying the power of Sathaniel; in fact, he banished him to hell, after cutting off four letters of his name, and gave him to the infernal regions under the abbreviated name of Satan. Basil rejected the doctrine of the resurrection, the books of Moses, and the eucharist, abolished baptism, characterized churches as devilish, and would not recognize any liturgy but the Lord's prayer. The priests and monks who lived in churches, with burial grounds attached, he compared to the low demoniae personages alluded to in the

for the prectors who presided over the courts. This basilica was also used for the reception and audience of foreign ambassadors. It is probable that Rome possessed basilicas in all the different forums of the city. The only one of which there are considerable remains left is the basilica of Trajan, which formed a part of the forum Trajanum. Another basilica of the Cororum Irajanum. Another bashica of the Corinthian order, was discovered on the Palatine hill. Two of the most celebrated basilicas were built at Palestrina, Fulvia and Æmilia, a part of the latter being preserved in the capitol among the marble fragments of the plan of Rome. One of the most perfect basilicas of antinome. One of the most perfect basilicas of anti-quity existed at the forum in Pompeii. II. Many of the Roman basilica were transformed into churches by the early Christians. Hence we find the name of basilica frequently used to signify a church by St. Ambrose, St. Jerome, and other ecclesiastical writers of the 4th and 5th centuries. There are 12 churches in Rome 5th centuries. There are 12 churches in Kome called basilicas, but the name is chiefly applied in modern times to the basilicas of S. Giovanni Laterano and S. Pietro, which were founded by the emperor Constantine. The basilican style has been revived in Italy, and of late also at Munich, in the church of St. Bonifacius, at Berlin, in the St. James's church, &c. An interesting work on the subject of the Christian basiliing work on the subject of the Christian basili-cas of Rome was published by Bunsen, at Mu-

cas of Rome was published by Bunsen, at Munich, in 1843.

BASILICATA (Anc. Lucania), a province of Naples, area 4,162 sq. m., having the gulf of Taranto on the south-west, bounded N. by Capitanata, E. by Bari, W. by Principato Ultra and Citra, and S. by Calabria Citra. The Apennines traverse the surface, most of which is high and broken, although along the shores of the gulf stretches a beautiful plain, watered by a number of small streams. The soil is not very fertile, but produces cotton, tobacco, saffron, and the grape. Potenza, Francavilla, and Tursi, are the principal towns. In December, 1857, frightful earthquakes occurred in this and other provinces of the kingdom. The shocks commenced on the night of the 16th, when 2 violent convulsions were experienced, when 2 violent convulsions were experienced when 2 violent convulsions were experienced, and continued at intervals up to about the end of the month. Nearly the whole of the Basilicata was laid in ruins. Towns and villages were overthrown, and in some places every house is said to have been destroyed. Tito, Marsico-Nuovo, Saponara, Montemurro, and Tramutola, were among the towns visited most severely. In 1 or 2 of these every inhabitant is said to have perished. Potenza, the capital of the province, was utterly ruined. The few houses which remained standing after the disof the province, was utterly ruined. The few houses which remained standing after the disaster were torn down, and the city will be re-built in another spot. The number of persons who perished by this disaster was immense. In the entire kingdom the loss of life was variously estimated at from 30,000 to 43,000, the greater part being in the provinces of Basilicata and Principato Citra. Pop. in 1850, 501,222. BASILIDES, a famous Gnostic who flour-

ished in the 2d century. The great fundamental points of his faith were emanation and dualism. According to his doctrine there were 865 spheres from earth to heaven. At the 865 spheres from earth to heaven. At the head of each of these spheres, as its creator, was an angel; God was the supreme creator. The Basilideans therefore constructed, to express that God, the word abraxas, made from those Greek letters which, according to the numeral system in use, stood for 865. Basilides supposed that human souls came up by a slaw greatetion through the lower forms of life. slow gradation through the lower forms of life, and even of things commonly called inanimate. Thus, with Basilides, there was no dead nature. All was struggling in birth with man. He denied the sacrificial character of Christ's death, believed in a kind of fate, and in the final redemption of the race. His doctrinal system, in many respects, was like that of Valentine. He used the apocrypha in his arguments, and bordered upon the faith of the Ebionites, in some degree. He was not ascetic in the tensome degree. He was not ascetic in the tendency of his doctrines, though in his own life he was abstemious. He held that Christ had no real but only a phantom body, and that Simon the Cyrenian was really crucified in his place. Eusebius charges him with having forged some prophetic writings. By some early Christian writers a gospel of Basilides is mentioned. On the whole, we may regard the Basilidean school as an important movement in Christian theology. Neander considers it as occupying a middle ground between the common Gnosticism and Neo-Platonism.

BASILIO DA GAMA, José, a Brazilian poet, born in 1740, at San José, supposed to have died at Lisbon, in 1795. His principal poem gives a picture-sque and romantic account of the bloody wars which the Portuguese waged, in 1756, against the natives of Paraguay. He was a prowars which the rollings. He was a pro-against the natives of Paraguay. He was a pro-tegé of the Brazilian minister Pombal, who gave Pombal's exile, and also dedicated verses to him in token of his gratitude. On his return to Rio de Janeiro, he was favorably received by the authorities and the literary notabilities, and with their cooperation he became one of the founders of the first Brazilian academy. In 1790 he again had to resort to flight, and he succeeded in escaping to Lisbon. He was the author of many lyrical pieces and sonnets, and of a poem, Quitubia, written on an African chieftain whose devotion to Portugal engaged the poet's sympathy: but the most abiding in token of his gratitude. On his return to Rio the poet's sympathy; but the most abiding monument of his genius is his "Uraguay," which is still popular wherever the Portuguese language is known.

BASILISCUS, brother of Verina, wife of Leo, emperor of the East, died in 477. In his youth he had obtained some successes against the Scythians, and, in 468, through the influence of his ans, and, in 40s, through the influence of his sister, was appointed to the command of the immense armament fitted out at Constantinople against Genseric, king of the Vandals in Africa. This expedition consisted of upward of 1,100 vessels, conveying soldiers and sailors to the numBasine fled from her husband, and coming to the king of the Franks: "I know," she said, "your merits and your courage; so I have come to be your wife; and you must know that if any one, to my knowledge, had been more able and courageous than you are, I would have gone to him." Childeric took her as his wife, and became by her the father of the founder of the Frankish kingdom in Gaul.

BASISI, one of the many wild tribes to be

found in the Malay peninsula, and called by the civilized Malays Orang-Benua, or aborigines.

BASKERVILLE, JOHN, an English printer and type-founder, born in 1706, died at Birmingham, Jan. 8, 1775. After having been a writer in Birming meeting meeting and templateness and templateness. nam, Jan. 8, 1770. After having been a writ-ing-master and a tombstone-cutter in Birming-ham, he made a fortune as a japanner in the same place. He then directed his attention to type-founding, greatly improving on the im-ported Dutch type, which was previously gene-rally used in England. His matrices were so sharply cut and finely shaped that they would be admired even now. He also improved the sharply cut and finely shaped that they would be admired even now. He also improved the quality of printing ink, and published editions of several of the classics, which were much valued. His Bible and Book of Common Prayer are now rare, but they are beautiful specimens of typography. His printing has a rich purple-black hue, supposed to be made by subjecting each sheet, as it came from the press, to pressure between heated copper-plates. Mr. Baskerville gained more honor than profit by his printing business. He retired from its superintendence in 1765, but the Baskerville press continued to be highly esteemed in Birmingham, until the Priestley riots of 1791, when the

continued to be highly esteemed in Birmingham, until the Priestley riots of 1791, when the mob destroyed the printing office.

BASKET, a vessel made by interweaving twigs, or reeds, grasses, leaves, metal or glass wire, whalebone, or any similar material. Baskets differ greatly in their forms, sizes, and the uses to which they are applied; from the rudest utensils of necessity to the most delicately wrought articles of luxury and taste. A breastwork on the parapet of a trench is sometimes formed of what is called baskets of earth (corbeilles), which are so placed as to allow the soldiers to fire between them, sheltered from the fire of the enemy.—Basket Making is one of the simplest and most ancient of the arts. The the simplest and most ancient of the arts. contrivance of fastening together branches, reeds, or grasses by interweaving others transversely, would be suggested to the lowest intelligence even without the factorial transversely. ligence, even without the frequent examples of it seen. The Romans found wicker boats covered with skins, in use among the ancient natives of Britain. Round boats of wicker-work covered with bitumen or skins were used on the Tigris and Euphrates in the times of Herodotus. Similar boats of about 7 feet in diameter are still used there. In India boats of a similar form and construction are still in use in crossing the less rapid rivers. They are made of bamboo and skins, requiring only a few hours' labor; they are about 12 feet in diameter and 4 deep, and are navigated with oars or poles, or

towed by oxen or men. They are sometimes used to transport large armies and heavy artillery. The ancient Britons manufactured wicklery. The ancient Britons manuscrates are revessels with extraordinary skill and ingenuity. Their costly and elegant baskets are mentioned by Juvenal in speaking of the extrava-gance of the Romans in his time. The natives of South America make baskets of rushes so closely woven as to hold liquids. Their manufacture and sale throughout the Spanish countries is very extensive. The natives of Van Diemen's Land weave similar water-tight vessels of leaves. The Caffres and Hottentots possess equal skill in weaving the roots of certain plants. Shields in ancient times were constructed of wicker-work, plain or covered with hides; they are still thus made among savage tribes. In England the bodies of gigs are sometimes con-structed of wicker-work. On the continent of Europe Holstein wagons, carriages drawn by 2 horses and carrying several persons, are made entirely of wicker-work, except the wheels. In different parts of the world, houses, huts, gates, fences, sledges, shoes, beside articles of use and ornament, are formed by this ancient and universal art.—In making baskets, the twigs or rods, being assorted according to their size and use, and being left considerably longer than the work to be woven, are arranged on the floor in pairs parallel to each other and at small intervals are art in the direction of the intervals apart, and in the direction of the longer diameter of the basket. Then 2 large rods are laid across the parallel ones, with their thick ends toward the workman, who is to put his foot on them, thereby holding them firm, and weave them one at a time alternately over and under those first laid down, confining them in their places. This forms the foundation of the their places. basket, and is technically called the slat or slate. Then the long end of one of these two rods is woven over and under the pairs of short ends, all around the bottom, till the whole is woven in. The same is done with the other rod, and then additional long ones are woven in, till the bottom of the basket is of sufficient size. The sides are formed by sharpening the large ends of enough stout rods to form the ribs, and plaiting or forcing the sharpened ends into the bottom of the basket, from the circumference toward the centre; then raising the rods in the direction the centre; then raising the rods in the direction the sides of the basket are to have, and weaving other rods between them till the basket is of the required depth. The brim is formed by bending down and fastening the perpendicular sides of the ribs, whereby the whole is firmly and compactly united. A handle is fitted to the basket by forcing 2 or 8 sharpened rods of the right length down the weaving of the sides, close to each other, and pinning them fast about two inches below the brim, so that the handle may retain its position when completed. handle may retain its position when completed. The ends of the rods are then bound or plaited in any way the workman chooses. This is a bas-ket of the rudest kind. Others will vary accord-ing to the artist's purpose, skill, and materials. When whole rods or twigs are not adapted to

to bee-keepers.—For an osier plantation, the soil should be deep and well drained and thoroughly worked with the plough or spade. A low, level, moist situation is the best, and one that can be flowed with water in the dry months. Grounds covered with standing water, need most queryings and situations approach. peat, moss, quagmires, and situations exposed to dry parching winds, are not at all suitable. to dry parching winds, are not at all suitable.

The osier is propagated by cuttings. These are sunk \(\frac{1}{2}\) their length in the soil by means of a dibble, in rows 3 feet apart, the cuttings standing 1 foot apart in the rows. The cuttings are 3 feet in length, sometimes less. If they are set somewhat diagonally in the soil, so that no part is buried too deep to throw out roots the is buried too deep to throw out roots, the growth will be more vigorous; and by planting them near together, the superfluous ones to be thinned out when necessary, and leaving only a few buds to grow, the shoots of the first crops will be longer, straighter, and more free from branches. It is necessary to keep the ground clean for the first few years at least, and at all times if the best osier is intended to be grown. ordinarily two ploughings a year between the rows will suffice. When ploughing is impracticable, the grass must be removed with a hoe or cickle. The crop of the first year is generally of little value; but it must be carefully cut of little value; but it must be carefully cut nevertheless, in order to have a good growth of shoots the next year instead of bushes and branches. The shoots for market are sometimes cut in November, and from that time to April are equally good. They should be cut at a distance of \(\frac{1}{2}\) to \(\frac{1}{2}\) of an inch from the stump. They should be tied in large bundles and their lower ends placed in water till they are peeled in April, May, or June. The operation of peeling is performed by drawing the shoots through an iron-edged implement called a brake. A an iron-edged implement called a brake. A simple instrument is sometimes made for this purpose by partially splitting lengthwise a small sapling through the centre, making a Y, through the crotch of which, and against the edges of the halves, the osier is drawn and its bark rapidly removed, injuring the wood less than by the use of iron. They are further cleaned if necessary by hand with a sharp knife, and then exposed to sun and air till cured, when they are to be put away in a dry place. Those not to be peeled and not soaked in water must also be carefully cured before the packing away, since the natural moisture of the plant may greatly injure its value. Mr. George H. Colby, of Vermont, has invented a machine for peeling wilmont, has invented a machine for peening win-low shoots, which is said to prepare them for basket-making in the best manner, and with great rapidity, enabling the grower to make a considerable saving.

BASNAGE, JACQUES, a distinguished French

BASNAGE, JACQUES, a distinguished French scholar, statesman, and theologian, born at Rouen, Aug. 8, 1653, died Dec. 22, 1722 or '3. He was educated at Saumur, in languages and literature, and at Geneva and Sedan successively, in theology. He was proficient in Greek, Latin, Spanish, Italian, and English at the age of 17. He began his clerical career as a minister of his

native parish (Rouen), in 1676. But in 1685 the Protestant religion was excluded from Rouen, and Basnage retired to Holland. Through the influence of his personal friend, Heinsius, he was chosen one of the pastors of the Walloon church at the Hague, where he, of whom Voltaire said he was fitter to be minister of state than of a parish, began his political career in a secret negotiation with Maréchal d'Uxelles at the congress of Utrecht, and afterward in the negotiations of a defensive alliance between France, England, and the states-general. In these matters he won for himself a high reputation as a statesman. As a reward for his political services, his confiscated estates at Rouen were restored. He was a diligent author, as his many theological, literary, and political treatises testify, and a thorough reformer in theology, and yet so moderate in his conduct, as to be equally esteemed by Catholics and Protestants.

BASQUES, an ancient and peculiar people, who, amid the revolutions of empires and the progress of civilization, seem to have lived unchanged on the 2 slopes of the Pyrénées mountains. They number, at present, 784,400 individuals, of whom 130,000 are subject to France, dwelling in the department of Basses Pyrénées, and the remainder occupy the Spanish provinces of Upper Navarre, Biscay, Guipuzcoa, and Alava. The last 3 provinces, in which they form the bulk of the population, are called the Basque provinces. From the remotest times the Basques have remained unsubdued in their mountain homes, and neither Carthaginian, Roman, Gothic, Saracen, French, nor Spanish domination has been able to efface their distinctive characteristics, to corrupt the purity of their race, or to modify their peculiar usages. They are of middle size, compactly built, singularly robust and agile, of a darker complexion than the Spaniards, with gray eyes, and black hair. With a naïve simplicity, they are also proud and impetuous, enthusiastic patriots, bold smugglers, merry, social, and eminently hospitable. The women are beautiful, skilful in performing men's work, and especially remarkable for their vivacity and their supple grace. The whole race has a passionate love for games and festivals, for rapid dances, the game of tennis, and music upon the flageolet and tambourine. The national dress is a red jacket, long breeches, a red or brown sash, a square-knotted neck-tie, hempen shoes, and pointed caps. The women wear head-dresses of gay colors over their variously braided and twisted hair. In the social relations of the Basques knotted neck-tie, hempen shoes, and pointed caps. The women wear head-dresses of gay colors over their variously braided and twisted hair. In the social relations of the Basques knotted neck-tie, hempen shoes, and pointed caps. The women wear head-dresses of gay colors over their variously braided and twisted hair. In the social relations of the Basques knotted pair receive a dowry from all their neighbors. The ar

(true significant elements). Its predominant combinations of sounds are: ar, man; bac, be, low, deep; cal, damage; car, gar, high; maen, men, power; na, plain, high; O, high; se, ce, plain, &c. Very rare combinations are, ner, and tar, ter. Astarloa and Erro, with some other native writers, insist in affirming that every sound is significant; thus: a, male, expanded; e, female; o, round; i, sharp; u, hollow; te (pronounced almost as one single sound), superfluous, &c. In this attempt to reduce their language to a natural origin the Basques are surpassed by Davies and Owen, who carry their surpassed by Davies and Owen, who carry their assertions and phonologies to much greater extent with regard to the Celtic languages. has constructed an Alfabeto de la lengua pri-mitira, which he asserts to be of Iberian origin. But, as far as it can be hitherto ascertained from coins and ancient inscriptions, there existed a Turdetan (Iberian) alphabet, differing from it, and a Celtiberian containing Phoenician letters. Velasquez gives us a third one, the Bastulo-Phoenician. There are, beside these two, some other varieties. We possess the most valuable grammatic information in the Vizcayan, the best lexical development in the Guipuzcoan (Larramendi's Diccionario trilingia Castellana Rassume y Latin San Sobasgue, Castellano, Bascuence, y Latin, San Sebastian, 1858), but scarcely any thing available in the Labortan dialect. William von Humboldt the Labortan dialect. William von Humboldt (in Adelung's Mithridates, and in his work on the aborigines of Spain, &c., Berlin, 1821), and

the aborigines of Spain, &c., Berlin, 1821), and Prince Louis Bonaparte, furnish the best materials among all foreign writers on the Basque language. See also Ticknor's "Spanish Literature," vol. iii. p. 857, and Le pays Basque, sa population, sa langue, ses mœurs, sa littérature, et sa musique, par Francisque Michel, Paris, 1857.

BAS-RHIN (Lower Rhine), a department in the E. part of France, contiguous to that of Haut-Rhin (upper Rhine); area, 1,777 sq. m.; pop. in 1856, 563,855. The Vosges mountains bound it on the W., the Rhine on the E. separates it from Baden, and on the N. the Lauter divides it from Rhenish Bavaria. The department is divided into the arrondissements of Strasbourg, divided into the arrondissements of Strasbourg, Saverne, Schélestadt, and Wissembourg. One-third of the surface is covered with forests. The remainder is well cultivated, and produces abundance of corn, wine, tobacco, beet-root, and hemp. There are numerous coal and iron mines, and commerce is greatly facilitated by several canals, and by the Strasbourg and Basel

railway. Capital, Strasbourg.

BASS, in music. See BASE.

BASS (labrax), a family of sea and fresh water fish, of which there are many well-known varieties in American waters. They belong to the division acanthopterygii, or those having spinous fins, to the family of the percida, or those of the perch type, and have several subgenera, as grystes and centrarchus, which are the most remarkable. Bass of various kinds are found in most of the waters of the world, and are everywhere well esteemed, both as a table fish and by the angler. The principal

European variety is the labrae lepus, which has, by some writers, been confounded with our striped bass, first distinguished by the late Dr. Mitchill, of New York, though it is an entirely different fish. The American varieties are: I. The sea bass, sometimes called blue or black bass (centropristis nigricans). This is purely a bass (centropristis nigricans). This is purely a sea species, never coming into fresh water. His general color is blue-black, alightly bronzed. The edges of all the scales are of a darker color than the ground, which gives it the appearance of being covered by a black net-work. The fins, except the pectoral, are pale blue, the anal and dorsal spotted with a darker shade of the same color. The teeth are set, like those of a carding machine, over all the bones of the mouth, those on the lips the largest. The dorsal fin has 10 spines, 11 soft rays; the pectorals, 18 soft rays; the ventrals, 1 spine, 5 soft rays; the anal, 3 spines, 7 soft rays; the caudal is tribobial and has 18 soft rays. The weight of the sea bass varies from ½ pound to 17 pounds, the latter weight very rare. II. The striped bass (L. lineatus). This is the rock fish of the Delaware. His color is bluish brown above, silvery white below, with from 7 to 9 equidistant, dark, parallel stripes of chocolate brown, those above the lateral line terminating at the base of the caudal fin, those below it fading away The edges of all the scales are of a darker base of the caudal fin, those below it fading away above the anal fin. The teeth are numerous on above the anal fin. The teeth are numerous on the palatic and maxillary bones, and on the tongue. The 1st dorsal fin has 9 spines; the 2d, 1 spine, 12 soft rays; the pectorals, 16 soft rays; the ventrals, 1 spine, 5 soft rays; the anal, 8 spines, 11 soft rays; the candal, which is deeply lunated, has 17 soft rays. This is an anadromous fish. It winters in the deep, warm, muddy sea bays, and runs up the rivers in the spring of the year in pursuit of the small and muddy sea bays, and runs up the rivers in the spring of the year, in pursuit of the smelt, and to devour the shad-roe; and in the autumn, to spawn itself. It runs from the size of a smelt up to 50, 60, and 70 pounds' weight. It is a most voracious fish, excellent on the table, and an especial favorite of the angler. III. The bar-fish (*L. notatus*), a variety of the fish above described, distinguished from it by Lieut. Col. Smith, of the British army. The principal distinction is that the lines on the sides are not distinction is that the lines on the sides are not continuous, but are broken into spots. IV. The ruddy bass (*L. rufus*). V. The little white bass (*L. pallidus*). These are 2 small and insignificant varieties, not exceeding a few and insignineant varieties, not exceeding a few inches in length, known to anglers in the vicinity of New York, where they abound, at about the meeting of the fresh water and the tide, as the river perch and the white perch.—We now come to the purely fresh water species, which are as follows: VI. The black base of the lakes are as follows: VI. The black bass of the lakes (grystes nigricans). His color is blue-black, glossed with bronze, and marked with darker clouded bandings; belly, lighter colored. Both jaws are armed with a broad patch of small, sharp, recurved teeth; the vomer has also a patch, and the palatic bones a belt or band of teeth of the same description. The dorsal fin has 9 spines; the 2d dorsal, 1 spine, 14 soft

vorite ornamental and shade tree in Europe. Prominent among the remarkable lindens are, that at Freyburg, in Switzerland, planted imme-diately after the victory at Morat, over Charles the Bold, 1476; a much older one not far from the same town;—that of a town in Wartemthe same town;—that of a town in Wartemberg, hence called Neustatt an der Linde, 100 feet high, whose branches extend nearly 100 feet from the centre, being supported by 108 pillars; and one at Knowles, near London, extending over nearly 1 of an acre, and surrounded by many circles of progeny grown up from the branches rooting in the soil, about 200 years old.—Out of linden-bast are made (especially efter being socked in water and separated years old.—Out of linden-bast are made (especially after being soaked in water, and separated from the outer bark) strips for tying plants and other things, nets for fishing (in Sweden), cloth for shepherds (in Carniola), the upper part of shoes (by peasants in Russia, who apply the unprepared bark as soles), fine baskets, ropes, mats (especially in Russia and Sweden). The whole bark is used also for coverings of all covers for roofs of cotteres and for baskets. The wood being close-grained, light, white, tough, pliable, resilient, not liable to warp, is employed in many ways, viz.: for bottoms of chairs, wainscoting, carved ends of stairs, carriage panels, sounding-boards in piano-fortes; it is turned sounding-boards in piano-forces; it is turned into toys, boxes, carved into spoons and other vessels (hence spoon-wood), into statues of saints, figure-heads of ships, &c., and is sawed into planks for various purposes. Among the finest carvings in this wood are those at Windsor castle, in the Trinity college at Cambridge, at Chatsworth, &c. Linden charcoal is held to be almost equal to that of the hazel for making suppowder and is preferred to that of the alder. gunpowder, and is preferred to that of the alder.

—T. Americana, called lenni and wikby by the aborigines, is distinguished from the European by the epithet nigra, on account of the dark brown color of its bark; although there are species not falling under this category. One, indeed, called alba, grows on the Ohio to the height of 80 feet. Other species are the pubercens and leptophylla. In general, the whole group does not differ essentially from the European, but the finest tree of this continent does not equal the finest of Europe. Many grow on the shores of lakes Erie and Ontario; others along the sea-shore in Maryland, Virginia, and Caro-See BAST.

BASS-RELIEF. See Basso Rilievo.

BASS ROCK, just at the mouth of the Frith of Forth, about 3 miles N. E. of North Berwick, is about 1 mile in circumference, and is of greenstone and trap. Through its entire diameter is a subterranean or rather sub-petran passage from N. W. to S. E. There are about 7 acres of grass plot on its surface, with an elevation of 420 feet above the sea. On it are also the ruins of a castle. In the reign of Charles II. this rock was purchased by him, and used as a state prison for confining the Covenanters. It was taken possession of by a body of the adherents of James II. and was the last place to yield to William. It is accessible to vessels only on the southern side, and even there only one person can ascend the shelving precipice at a time. The soland geese frequent this rock at particular seasons, and large numbers of the birds and eggs are taken to the mainland for market. This renders the rock valuable as for market. property. It is owned at present by Sir Henry Dalrymple Hamilton, of North Berwick, and is farmed for a considerable rent.

BASS'S STRAITS, so named from the discoverer, George Bass, and separating Van Dicmen's Land from New South Wales. Until men's Land from New South Wales. Until 1797, Van Diemen's Land was supposed to be a part of the large continent of Australia. These straits are about 250 miles long, and 140 wide. At their eastern entrance stands Flinders's island, and at the western, King's island. They abound in small islands and coral reefs, which materially obstruct the navigation

BASS, George A., surgeon in the English navy, who distinguished himself by his discoveries in New South Wales and Van Diemen's Land. Bass was sent out by the English government. ernment with Gov. Hunter, to New South Wales, a few years after the formation of the colony. He and Midshipman Flinders made colony. He and midshipman rinders made their first 2 voyages of discovery on the coast of New South Wales in a boat only 8 feet long, which they very appropriately called the "Tom Thumb." The following year (1797) the government despatched Bass on a 3d voyage of discovery of the coast of the state of the coast of the state of the coast of the state of the coast of th covery. On this occasion he discovered the straits that bear his name, between Van Die-men's Land and New South Wales, and so it men's Land and New South Wales, and so it was settled that these two portions of land were not united. In 1798 he was sent again, with Flinders, with directions to sail around Van Diemen's Land, and examine and project the coast. The result greatly increased the progress of colonization in that country. Been were an of colonization in that country. Bass was an ardent and daring adventurer. He attempted in 1796 what was not accomplished until 17 years later, and then not by himself, namely, to years later, and then not by almost, which sepa-find a pass through the mountains which sepa-rate the coast land from the interior of New South Wales.

BASSA, PEDRO HOLASCO, a Spanish general, porn at Reus, in Catalonia, in 1790, died July 27, 1835. He was among the first to rouse the population of Catalonia to arms against the Bonapartists. After the restoration he received a commission. He was unfavorable to the government proceedings in 1820, but he defended the constitution until he was forced to surrender by the French at Tarragona, in 1823. In the reorganization of the army he was made a colonel by Ferdinand VII, In 1888 he was appointed military commandant of Cadiz, and in 1834 he was sent to Barcelona as governor of the city. In 1835 a bullfight took place, and a concourse of spectators, not less than 20,000, were gathered into the amphitheatre. The bulls were tame and spiritamphitheatre. The bulls were tame and spirit-less, and their bad performance gave such dissatisfaction to the enthusiastic amateurs of the national spectacle, that, with loud imprecations on the niggard spirit of the authorities, the

wrested from them by the Mahrattas in 1750,

wrested from them by the Mahrattas in 1750, and on the treaty of peace with the natives in 1802 passed into British possession.

BASSELIN, OLIVIER, a working man and a poet, born at Val-de-Vire, in Normandy, France, about the middle of the 14th century, and died about 1418. He was a fuller, and this branch of industry is still carried on at his native village. The incidents of his life are buried in oblivion. His forte lay in the composition of drinking songs. These songs were first called Vaux des Vires from the place of their origin. of drinking songs. These songs were first called Vaux-de-Vire, from the place of their origin.

Hence the modern French word vaudeville. After existing orally for a long time, Jean le Houx, a Norman, had them printed about 1576. Basselin is one of the earliest writers of French

songs, and on that account alone, is interesting to the student of French literary history. to the student of French mentaly a German publicist, born at Mannheim, in 1811, died hand July 29, 1855. He began life by his own hand July 29, 1855. He began life in commerce, then studied at Heidelberg, and served in the legislature of Baden, and in the Frankfort parliament of 1848. In both these bodies he was a decided conservative. In 1850 e was attacked by a nervous disease, and killed

himself to escape the suffering it caused him.

BASSES, GREAT and LITTLE, the names
given to 2 ledges of rocks in the bay of Bengal.

given to 2 ledges of rocks in the bay of Bengal. Little Basses is the more dangerous group.

BASSES-PYRENEES (Lower Pyrénées), a frontier department of France, bounded N. by the department of Landes and Gers, E. by the department of Hautes-Pyrénées, S. by the Pyrénées, and W. by the bay of Biscay; area, 2,862 sq. m.; pop. in 1856, 436,442. It comprises the arrondissements of Bayonne, Mauléon, Oléron, Orthez, and Pau. About 1 the surface is covered with pastures and marshes; forests occupy 1; the rest is fertile. The mountains give birth to numerous torrents, the principal of which to numerous torrents, the principal of which are the Gave-de-Pau, the Gave-d'Oléron, and the Nive. The mineral springs of Eaux-Bonnes and Eaux-Chaudes are much resorted to, and the aprings of Salies yield excellent salt. Iron and Eaux-Chaudes are much resorted to, and
the springs of Salies yield excellent salt. Iron
forging and linen and paper making are almost
the only manufactures. The capital is Pau.
BASSET, a name given by miners to the
outcropping edges of strata. Upon the slopes
of hills within which the strata lie inclined to

the horizon, these edges assume the greatest varieties of outline, as they appear at different levels and upon the different sections, along which they may be exposed. Seen in a vertical section on the strike of the strata the basset edges are horizontal, however steep the dip. They show the true dip only when the section is upon its line.

BASSE-TERRE, the French term for low land. It is applied to 2 districts and 8 towns. The southern portion of the island of St. Christopher, one of the British Antilles. It is a very beautiful and well-cultivated district, II. The western division of the island of Gua-deloupe, one of the French West Indies. The western division is separated from the eastern

by a small creek connecting 2 bays in the north and south. The western division is remarkable for its atmospheric humidity. III. The capital of the island of St. Christopher, which is situated in the district of Basse-terre, and on the southern coast of the island, at the mouth of a small river. It is a well-built town containing a large open square in the centre, and protected by 8 forts. The trade of the town is considerable. The coast is not adapted for commerce. A sandy beach prevents both the commerce. A sandy beach prevents both the erection of quays and the near approach of laden vessels. The freight is loaded and unloaded from a kind of lighter called a "Moses," which is thrown up broadside to land, on the sandy beach, in the lull of the surf. A light-house was erected on this coast in 1846. IV. The capital of the French island of Guadeloupe, in the West Indies. It is a seaport, and is situated in the western division of the island and on its south-western coast. It is especially remarkable. south-western coast. It is especially remarkable, as is the entire western division of the island, for the humidity of its atmosphere. The annual average of rain falling from the middle of July to the middle of October is 86 inches. The clito the middle of October is 86 inches. The climate is warm, rising frequently to 130° F., but its average is about 81° F. Basse-terre has been the capital of the island since 1848, when the former capital, Point-à-Pitre, situated in the eastern division, was destroyed by an earthquake. Basse-terre is the residence of the governor of the French colors of Guedlenne and in of the French colony of Guadeloupe, and is the principal seat of commerce for the island, on account of its proximity to the producing portion of the country, in spite of the deficiency of a protected harbor, for which it has only an of a protected harbor, for which it has only an exposed roadstead. The harbor of the former capital is much better than that of Basse-terre.

capital is much better than that of Basse-terre. V. The capital of the nearly circular island of Marie-Galante, lying in the Caribbean sea, 15 miles south of Guadeloupe.

BASSI, Hugh Visconti de', born in the latter part of the 14th century, the natural son of a Sardinian gentleman, who owned more than to the whole island of Sardinia, beside other states. On the death of his father Bassi was estates. On the death of his father, Bassi was refused his inheritance by the Pisans on account of his illegitimacy. This so enraged him against of his illegitimacy. This so enraged him against the inhabitants of Pisa, that he revenged him-self by getting in his power a body of Pisan soldiers, under pretence of defending the island, when he treacherously obtained their massacre, and afterward surrendered the island to James

and afterward surrendered the island to James II., king of Aragon.

BASSI, LAURA MARIA CATERINA, a distinguished scholar, born at Bologna, Oct. 81, 1711, died Feb. 20, 1778. At the age of 21, she sustained successfully in public a philosophical thesis in Latin against 7 professors. This novel exhibition occurred April 17, 1782, and the following May, she received the degree of doctor in philosophy, while the same year the senate conferred upon her a chair of philosophy, with privilege to lecture. She afterward studied physics, algebra, and geometry, with great sucphysics, algebra, and geometry, with great suc-cess. Her command of language was great, and

BASK or Bass, is the inner bark (endophlowoody circle. It is the fibrous part of the bark, and consists of a tissue of cells, including the so-called laticiferous vessels. Less frequently it occurs in the pith and leaves of dicotyledonous, and in the stems and leaves of monocotyledonous, and in the stems and leaves of monocotyledonous vegetables. It originates out of the cambium (organizing tissue), and belongs to the vascular bundle. The bast cell grows long at the expense of the surrounding parenchyma, without producing new cells. The wood and without producing new cells. The wood and bast cells of monocotyledonous plants are not cessily distinguishable. There are none in the cryptogamous. For the plant itself, as well as for technical, medicinal, and other purposes, the bast cell is of the highest importance. For, the past cell is of the highest importance. For, unless it become changed into wood, it conducts sap; it serves to exchange and to alter the vegetable matters, being a sort of digestive organ; it produces nutritious, or poisonous, or medicative matters, and is largely used in the fabrication of cloth, ropes, mats. sacks. The best of the conductive matters are the conductive matters. in the fabrication of cloth, ropes, mats, sacks, &c. The bast cells are disposed and developed variously in different plants; occurring in rows, wreaths, more or less spread bundles, or single within the parenchyma. In some plants bast is formed but once, in others every year. Some formed but once, in others every year. Some are simple, others branched; some primary, others secondary; some ever limber, others changing into wood. They are most developed toward the outside. While young, they contain a granulary liquid, which disappears by the thickening of their walls. In the chelidonium majus this liquid remains as yellow milk. The laticiferous cells of the aposynea, euphorbiacea, composita (dandelion, lettuce, &c.), are developed just like the fibrous cells of flax. Young bast-cells, when treated by a solution of iodine and chloride of zinc, become pale solution of iodine and chloride of zinc, become pale blue, the older ones violet, the full-grown pink. Thickened cells are plainly stratified, and their walls often become contiguous by the disappearance of the cavity. The walls exhibit various designs, spiral or other lines, more of the constantly according to the variety of the less constantly, according to the variety of the plants, and also to the treatment by alkali and acids. By such treatment, and by the microscope, the nature of the various fabrics made of bast may be determined. Thomson and F. Baur have thus demonstrated the sheets around Egyptian mummies to be of linen. The degree of decomponibility, of contraction, of twisting; or decomponently, of contraction, or twisting; the length, density, and form of the single cells of the bast, vary in different plants. They are very long in flax, hemp, in some nettles, spurges, &c.; very short in cinchona. Cotton consists of long hairs, and not of bast-cells, which it very much resembles otherwise. The bast-cells of monocotyledonous plants are mostly lignified. The unlignified are very hygroscopic (water-attracting), contain often chlorophyl (the green matter of plants), and more frequently a sort of milk, which is condensed into gumclastic, gutta-percha, opium, &c., substances out of which art produces strychnine, nicotianine,

and many other narcotic alkaloids. The lignified, on the contrary, conduct sap but a short time, become filled with air, and thus dead for the plant. No bast-cell has pits, but the abiotinea have sieve pores or canals.—The uses of bast are manifold. Flax bast is soft, flexible, seldom with swellings; hemp bast is very long, stiffer and thicker than flax, more stratified; nettle (urtica dioeca) bast resembles cotton, has swellings, is thicker than hemp. Branched and lignified bast-cells of great beauty are found in the mangrove tree (rhicophora mangle), and the secondary ones of abics pectinata. Among the monocotyledonous bast fibres, those of the New Zealand flax (phormium tenax) are the most remarkable, being found in bundles near the margin of leaves. They resemble hemp, are very white, sometimes yellowish, very long, and containing much lignin, somewhat stiff, but very tough, and fit for stout ropes. In palms a highly developed body of lignified bast surrounds their vascular bundle, while particular bast bundles are found also in the bark, leaves, and interior of the stem. Of this, the lusk of the cocoanut is an example. A similar disposition exists in the dracana refleza, and in some aroidea. Everybody knows the tenacity of the bast of the lime tree, which is hence called bass-wood. The Chinese grass cloth is made of bahmeria puya. Manila hemp comes from the musa textile; rice bags are made in East India from anturis saccidora. The Latin name of bast, liber, has been applied to designate book, from the use of bast in ancient times for writing on. Our word book also means, originally, beech (fugus), from the same use of itabast before the invention of other materials.

book, from the use of bast in ancient times for writing on. Our word book also means, originally, beech (fugus), from the same use of its bast before the invention of other materials.

BASTAN, a valley of Spain, in the province of Navarre, near the frontier of France, on the southern slope of the Pyrénées mountains. The valley is about 25 miles from north to south and 10 miles from east to west, is encircled by lofty heights, and watered by several streams which are the affluents of the Bidassoa. The inhabitants, about 8,000 in number, speak the Basque language, and have been distinguished for their valor since the 13th century, when they fought so gallantly at the battle of Las Navas de Tolosa that their king pronounced every man of Bastan a hidalgo or gentleman. They are all soldiers, and once in 3 years they assemble and hold a general military review. They meet also every 3 years to select 3 persons, of whom the viceroy of Navarre appoints one to be the alcalde of the valley. There are 13 villages beside the capital town Elizondo. The valley produces wheat, Indian corn, flax, chestnuts, and various other fruits in abundance. Its pastures and forests are held in common, and its principal wealth is in cattle. Here in 1794 the French general Moncey defeated the Spaniards.

BASTARD (old Eng. bastærd, Saxon, bus, low or spurious, and steert, sprung), a person born without lawful parentage. By the English law a child born after marriage, whatever may be

country, whose idea of the omnipotence of the state he combated with remarkable keenness and cogency. In 1848 he was chosen a member of the constituent and then of the legisla-tive assembly, but his health, never very strong, did not allow him to appear at the tribune. He developed, however, a more remarkable activity as a writer, and gained a universal reputation by his controversies with the celebrated Proudhon, who met with no other antagonist half so formidable. His labors during eventful period entirely exhausted the vital forces; consumption made its appearance, and his physicians ordered him to Italy, in Sept. 1850, where, after 8 months, he died.—He was a writer of great point, pungency, and clearness. Among his most striking works are, perhaps, the pamphlet Capital et rente and the perhaps, the paniphlet Capital et rente and the Gratuité du crédit (Paris, 1849), containing the discussion of the questions raised by Proudhon. But by far the most important of his works is the Harmonies économiques, left incomplete at his death. It is an attempt to demonstrate that the laws of economy all tend concurrently and harmoniously to the progressive amelioration of human life. From this point of view there is no real antagonism in society, but the interests of all classes and this point of view there is no real antagonism in society, but the interests of all classes and individuals are essentially congruous and mutually dependent. This work was the occasion of a prolonged controversy between M. Bastiat and his friends and Mr. Henry C. Carey of Philadelphia, who contended that the principle of economical harmony was a discovery of his own, and had been first set forth in his "Principles of Political Economy" (3 vols, Phila, 1837-'40). This discussion was conducted in the pages of the Paris Lournal des feconomietes. ciples of Political Economy" (3 vols., Phila., 1837-'40). This discussion was conducted in the pages of the Paris Journal des économistes,

and justly excited much attention.

BASTIDE, Jules, a French statesman, minister of foreign affairs for the French republic under Gen. Cavaignac, born at Paris, Nov. 21, 1800. Early a democrat, he could never cease to labor for the downfall of the Bourbon He fought hard in the revolution monarchy. of July, 1830. He was also opposed to the Orleans monarchy. Condemned to death for his share in the insurrection of June 5, 1832, he escaped from prison and fled to England, where he resided 2 years. He returned in 1884, and was acquitted. After the death of Armand Carrel he became chief editor of the National newspaper. This place he resigned in 1846, and founded the *Revue Nationale* in 1847. He rendered great assistance to Lamartine in the office of the ministry of foreign affairs, and was elected to the constituent assembly for 3 departments. He chose the Seine and Marne. denartments. He was minister for foreign affairs from May

10 to Dec. 20, 1848.

BASTILE, the state prison and citadel of Paris, built in 1869, in order to protect the palace of Charles V. against the incursions of the Burgundians, and destroyed by the mob in the beginning of the revolution, in 1789, after an existence of 20 years above 4 centuries.

easy to be ascertained, nor, if it were, would it be of any avail; since, having received additions by every successive monarch, it had no regular design, of any period, much less one in the least accordant with any present system of fortification. It had, however, as its principal feature, eight huge round towers, connected by curtains of massive masonry, and was encir-cled by a ditch of 125 feet in width, which was dry, except after great overflows of the Seine or unusually heavy rains. This ditch was, exteriorly, surrounded by a wall of 60 feet in height to which was attached a wooden gal-lery, rising in successive stages, and running around the whole inner circumference of the ditch, opposite to the castle. This was called "the rounds." Two staircases gave access to Two staircases gave access to these rounds, from the right and left, directly in front of the main guard, and sentinels were regularly posted in them, whose duty it was to be perpetually in motion watching the windows, in order to discover the first movement of the prisoners toward escape. Within the body of the castle a sentry struck a bell every hour, day and night, to show that he was on the watch; beside this, during the night, a bell was struck hourly in the rounds. The administration of the Restile was vested in a governistration of the Bastile was vested in a govern-or, a royal intendant, a major, a major's aid, a surgeon, and a matron. The garrison was composed of 100 men, commanded by two captains, a lieutenant, and sergeants. The lieut. tains, a lieutenant, and sergeants. The lieut-general of police in Paris was the sub-delegate of the minister for the department of the Bastile, and he had, under his orders, an official commissioner, called the commissioner for the Bastile. So soon as a prisoner was brought to the Bastile he was inventoried, his trunks, clothes, linen, and pockets were all examined, in order to discover whether there were any papers bearing relation to the causes of his ar-rest. "The new-comer," says the advocate Linguet, who was himself detained 8 years in the Bastile by Maurepas, "is as much surprised as alarmed to find himself subjected to the search and personal examination of 4 men, whose appearance seems to belie their functions; men clad in a uniform which leads one to look for a regard to decencies, and wearing decorations which presuppose a service which endures no stain. These men take from him his money, that he may have no means of corrupting any one of their number; his jewelry on the same consideration; his papers, for fear he should find any resource against the tedium to which he is henceforth devoted; and his knives and scissors, for fear he should commit suicide, or assassinate his gaolers." After this examination, he was led to the cell intended for his occupation. These cells were situated for his occupation. These cells were situated in all the towers, the walls of which were, at least, 12 feet in thickness, and at the base 30 or 40. Each had an aperture worked in the or 40. Each had an aperture worked in the wall, defended by 3 iron gratings, one within, a second without, and a third in the mid thickBASTILE 719

freeman could enjoy, except that of freedom. They were served on china and silver, in fine apartments, on exquisite wines and delicate meats, furnished from without the prison.

They were allowed books, papers, the attendance of their own servants, the society of their friends and families, the freedom of the whole interior of the fortress—all, in short, except to go beyond the gates. Yet amid all this com-parative reason for content, there was, to the unhappy man, the ever-present knowledge, that he was there at the mercy of one supreme, irresponsible disposer, with whom no argument could be held, to whom no reason could be adduced, from whom no hearing could be obtained, and, lastly, from whom there was no appeal; that, on any caprice or change of policy, he might at any moment be subjected to the most horrible condition of the most wretched inmate of that house of woe; and that if it were desirable or determined to torture, or to kill, or to immure in oblivion and report him as being dead, no human being would ever be the wiser, until the end of time, as to what had been his real fate. It is this feature of the system, that rendered imprisonment in the Bastile, on a simple lettre de cachet under the royal seal, and with the minister's signature, both, perhaps, with-out knowledge of the king, without cause as-signed, charge preferred, term of detention named, or any hearing ever, of necessity, to be had—beyond all consideration of the nature of the place, or of the mode of treatment of the prisoners—so horribly appalling.—Up to the date of the accession of Charles VII. the Bastile continued to be merely a royal fortress, when it became a state prison, under the government of Thomas Beaumont, who was in command when, in 1418, the populace broke into its precincts, massacred the Armagnac prisoners, and made as if they would have devoured their bleeding carcasses. During the reign of Louis XI., Philip l'Huilier, governor of the fortress, was doubtles an instigutor of the most barbarous inflictions within its walls. Tristan l'Hermite, in his slavish subserviency to the caprices of his royal gossip, often made errors in sacrificing the wrong man, but what then? If the innocent were put to death in lieu of the guilty, the mis-take was easily rectified—it was but a head more or less; and there were heads enough in France, that the justice of the king should not be defrauded. But it is Louis himself who was the author, the inventor, of the worst barbari-ties. It was he who, in the dungeons of the Bestile, as in those of the great Chatelet, caused pits to be excavated and lined with amouth and polished masonry, in which, owing to their form, the wretches who were lowered into them could obtain no respite from the agony of their forced and unnatural position, by any change of posture, since change of posture was not possible. In these hideous places were immured the princes of the house of Armagnac; and from these, twice in every week, they were drawn with cords, to be

scourged in the presence of the governor; and, again, once in every 8 months, to have 2 of their teeth torn from their jaws. Within the walls of this prison died Charles de Gontaut, Sieur de Biron, for treason against the crown and life of Henry IV. Great warrior, duke, peer, marshal of France, as brave as his own sword, the most daring of men in the battle-field, he was sentenced, as an act of grace, to be beheaded, privately, within the walls of the Bastile, instead of suffering the public ignominy of decapitation in the Place de Grèce. At the time it was thought strange that so renowned a soldier as Biron should have wanted moral courage to meet inevitable death like a man; but such things are now better understood; and it is well known that they who have braved death a hundred times, and would brave it again, fearlessly dred times, and and defiant, in the open air and before the faces of crowds of admiring and sympathizing specta-tors, often die, trembling and irresoluto cow-ards, when they have no witnesses of their way ards, when they have no witnesses of their way of dying but God and the executioner. Within these walls, during the reign of Louis XIII., languished for 12 years the notorious Bassompierre, the friend of the king, but the enemy of Richelieu, whose enmity was, in those days, more to be dreaded than the judgment of the king. Within these walls, during the succeeding reign, was enacted the inexplicable mystery, which has continued a mystery to this day, of the Man in the Iron Mask. When first heard of, he was confined in the Marguerite islands, in the Mediterranean, whence he was removed by De Saint Mars, who was his private governor, and answerable, it is supposed, for his safety with his own life, to the Bastile, where he died on Nov. 19, 1703, and was buried on the 20th in the cemetery of St. Paul, under the name of Machiati. No man, except the governor, so far as is known, ever saw his of dying but God and the executioner. the governor, so far as is known, ever saw his face, or heard his voice; 2 persons, to whom he had conveyed written words, in one case marked upon a linen shirt, in the other en-graved on a silver plate, died, without apparent cause, immediately afterward. During his conveyance from the Marguerite isles, De Saint Mars dined at the same table, and slept in the same chamber, with him, with pistols ever at hand, ready to destroy him, in the case of an attempt on his part to reveal himself. In the Bastile he was waited on, at table and at his toilet, by the governor; who took charge of, and destroyed, all the linen he had once used. He was never seen but with a mask of black velvet, fastened behind his head with steel springs; and, when he went to hear mass, the invalids, who were in charge of him with muskets and lighted matches, were instructed to fire on him, instantly, in case of his speaking or showing his face. A hundred conjectures have been risked, as to who this mysterious person could have been, who was treated with such respect, yet with such jealous rigor; whose life was held sacred against taking off, yet made one scene of incessant misery. The absence of

many changes of form and size, until about 1740, Cormontaigne published a system of bastionary fortification, which is generally considered as the most perfect of its kind. His bastions are as large as they can well be made; his flanks are nearly, but not quite, perpendicu-lar to the lines of defence, and great improvements are made in the outworks. Bastions are either full or empty. In the first case, the whole of the interior is raised to the height of the rampart; in the latter, the rampart goes round the interior side of the bastion with a sufficient breadth for serving the guns, and leaves a hol-low in the middle of the work. In full bastions, cavaliers are sometimes erected: works, the sides of which run parallel with those of the bastion, and are elevated high enough to allow of the guns being fired over its parapet. From the commanding height of such cavaliers, guns of the greatest range are generally placed in them in order to annoy the enemy at a distance. The system of fortification based upon bastions was the only one known from the 16th to the was the only one known from the end of the 18th century, when Montalembert put forward several new methods without bastions, among which the polygonal or caponière system for inland fortresses, and the system of casemated forts with several tiers of guns, have

BASTION, a village of Algeria, near Constantine. In 1520 a bastion was built in the vicinity of this village by the French African company, the first establishment of the French in Algiers. The place was afterward abandonin Algiers.
ed for Calle.

BASTON, ROBERT, prior of the Carmelite convent of Scarborough, and poet laureate and public orator of Oxford, died about the year 1310. He accompanied Edward I. when he invaded Scotland in 1304, in order to celebrate his achievements in verse, but was taken prisoner. He wrote several Latin poems, and a relume of translies and councilies in English.

volume of tragedies and comedies in English.

BASTROP, a county of Texas. The soil is
generally fertile, and the surface moderately
uneven. The Colorado river, which traverses uneven. The Colorado river, which traverses the county, is navigable by steamboats during six months of the year. Numerous smaller streams furnish excellent water power. In 1850 this county produced 148,360 bushels of corn, 6,572 bushels of oats, 18,552 bushels of sweet potatoes, 91,536 lbs. butter, 1,626 pounds of wool, and 1,478 bales of cotton. It was named in honor of Baron de Bastrop, a Mexican. Area, 890 sq. miles; pop. in 1857, 7,327, of whom 2,975 were slaves. Capital, Bastrop. BASTWICK, Dr. John, the author of several works attacking the papacy, born in Essex, in

works attacking the papacy, born in Essex, in 1593, died about 1650. He practised medicine at Colchester. Some of his publications being considered to reflect upon the English ecclesiastics, he was fined £5,000 by the court of high commissions, excommunicated, and imprisoned. He thereupon attacked the bishops still more vehemently, and was sentenced by the star chamber court to pay a fine of £5,000, to VOL. II.—46

be set in the pillory, and to be imprisoned for life. In 1640 his sentence was reversed by the parliament, and reparation ordered to be made him from the estates of his persecutors, but the troubles of the revolution prevented the execution of the decree during his lifetime. He received an allowance, however, for his support.

BAT, a mammiferous quadruped, whose dif-ferent genera constitute the order *cheiroptera*. This is one of the most distinctly circumscribed groups of the class mammalia, and may be characterized as follows: general form disposed for flight; an expansion of the skin stretched between the four limbs and the greatly elon-gated fingers of the anterior extremities; this flying membrane naked, or nearly so, on both sides; the manning on the breast; the clavicles very strong; the fore-arm incapable of rotation in consequence of the union of the bones. The bats consist of 2 very distinct groups, charac-terized mainly by the structure of the teeth; tenered mainly by the structure of the teeth; the first, containing the genera pteropus and cephalotes, is frugivorous, has the molar teeth, with flattish crowns, obliquely truncated and longitudinally grooved, 3 joints in the fingers, generally provided with a nail on the second finger, and the tail wanting or rudimentary; the second group containing the ground state. the second group, containing the genera respertitio, phyllostoma, nysteris, &c., has the molars with sharp points like the true insecti-tora, showing at once the different nature of their food. The skeleton of the bats combined as great degree of lightness with recollination their food. The skeleton of the bats combines a great degree of lightness, with peculiarities in the anterior extremities, suitable for purposes of flight. The head is the longest in the frugivorous group; in all, the portion of the temporal bone containing the organ of hearing is much developed; they all have canine and incisor teeth, the latter varying in number from 2 to 4 in the upper, and from 2 to 6 in the lower jaw; the molars also vary from 3 to 6 in each jaw. The vertebræ of the neck are very broad; those of the back and loins are simple and almost without spinous processes, and much and almost without spinous processes, and much compressed at the sides; the sacrum is very long and narrow; the tail, when present, is short, and of use to support the interfemoral membrane and direct the flight. The number membrane and direct the flight. The number of vertebra in pteropus is probably less than in any other mammal, being only 24. The ribs are remarkably long, as is the breast-bone; the upper part of the latter is greatly expanded laterally, to give a firm support to the very strong collar-bones; the front of the bone has also a crest, like the keel of the bird's sternum and for a similar number of the origin of the and for a similar purpose, viz., the origin of the powerful muscles of flight. As the collar-bone, so the shoulder-blade is highly developed, especially in the active insectivorous bats; the arm-bone is very long and slender; the forearm consists of the usual 2 bones, but the ulna contract and investor and investor and investor to the addition. is quite rudimentary, and is united to the radius; the latter is very long and robust, and cannot be rotated, an admirable provision for an ani-mal whose progression requires a constant re-sistance to the air. But the most remarkable

the flapping of their wings. The vampire bat is a large South American species, of the genus phyllostoma, whose natural food is insects, but which, if pressed by hunger, will suck the blood of poultry, cattle, and even of man; the blood is obtained entirely by suction from the capillary vessels, and not through any wounds made by the teeth; the stories told by travellers are much exaggerated, as the animal is harmless and not at all feared by the natives. The insectivorous bats have the simple stomach and short intestines of the carnivora; while the frugivorous species have a complicated stomach and a long alimentary canal. Bats are natives of all the temperate and tropical regions of the globe; those of this country belong chiefly to the respectitionide. The large East India species, the roussettes, of the genus pteropus, are extensively used as food. The fur of bats is extensively used as food. In fur of bats is generally exceedingly fine and soft. Bats fly to a considerable height and with great rapidity; they are nocturnal in their habits, avoiding the light and noise of day, during which they hang by the hind feet in some gloomy or obscure they in the warm summer avanings they retreat; in the warm summer evenings they sally forth in search of prey, and themselves fall easy victims to the owls and birds of night and to any snare that may be set for them; they pass the winter, and indeed the greater part of the year, in a state of torpidity, or hi-bernation. The cheiroptera are intermediate between the quadrumana and the true insec-tivera; the galeopitheeus, or cat-monkey, of the Indian Archipelago, presents many charac-ters of the cheiroptera, though belonging to the quadrumana; the frugivorous genera approach the quadrumana in their teeth, while the insecteters resemble the true insectivora in their dentition; we find the monkey characters also dentition; we find the monkey characters also in the free movements of the thumb, the deep divisions of the fingers, the pectoral situation of the breasts, the cheek-pouches of many, and in the organs of generation and digestion; the bats differ from the quadrumana especially in the great development of the breast-bone and in the impossibility of rotating the fore-arm.— North America has the following bats: Vesperti-

North America has the following bats: Vespertilio noreboracensis, V. pruinosus, V. subulatus,
V. noctivagans, V. carolinensis, V. mauticole,
V. virginianus; molossus cynocephalus, M. fuliginosus; plecotus Lecontii, P. Tounsendi.

BATAAN, a province of the island of Luzon,
forming the peninsula between the bay of Manila and the China sea; area, 450 sq. m.; pop.
in 1853, 42,500; chief town, Bolanga. It is
noted for many excellent varieties of marble,
which are extensively used in the churches and which are extensively used in the churches and which are extensively used in the churches and public buildings of Manila and other towns of the Philippines. The inhabitants of the towns and coasts of this province are of the Tegala race, and constitute the amount of population mentioned, and subject to the poll tax; but, beside these, the mountain fastnesses (a spur of the Zambeles rugs through the province or the Zambales runs through the province) are inhabited by numerous tribes of Negritos. These lively, harmless little black savages, are hunted

like wild cattle by the Spaniards and civilized Tegalas, for the avowed purpose of capturing young males and females, to be educated and then set at liberty among their wild brethren, who abound in the inaccessible mountain recesses throughout the island. Notwithstanding the great improvement of the Philippine races generally, under Spanish dominion, this coercive system has not been successful. The Aetas, the most noted of the Negrito race, are said to be "far less amenable to civilization than the be "far less amenable to civilization than the wildest of the brown-complexioned race." In many instances an Acta of tender age has been taken care of by wealthy families of Manila. The young Acta is a well-formed, handsome-featured, bright black little creature, with brilliant eyes and lively motions, like the Indian experience. In every such attempts at deposition antelope. In every such attempt at domestication, under the most favorable circumstances, the confined Acta, either male or female, when full grown, has fled from the luxuries of civilization to share the naked savagery that ever prevailed in their native mountains. They present a singular and marked contrast in char-

acter to the enslaved black races of Africa. acter to the enslaved black races of Africa.

BATAC, or BATAO, an island about 1½ mile off the N. E. coast of Samar, the most northerly of that portion of the Philippine islands which goes under the designation of Visaya, or Bisaya. Area, 18 sq. m.; pop. 2,500. It forms a part of the district of Palapag, in Samar.

BATAK, a remarkable race of the island of Sumatra, inhabiting that portion called Batta.

BATAK, a remarkable race of the island of Sumatra, inhabiting that portion called Batta, or Battas, bounded N. by Achin, S. by the ancient Malay territory of Menancabow, while, on the eastern and western sides, they are hemmed in by Malay colonies, which confine them to the mountainous region and plateaus in which the rivers Ledang, Bila, Burunom, and Batang Gadis have their sources. The distinctive peculiarity of the Bataks is that of lettered cannibalism. They have a written character, entirely original, forming an alphabet of 22 substantive letters and 5 vowel marks. They write from left to right, and, for ordinary purposes, write, like the Rejangs, south of them, upon polished joints of bamboo. Their books, and such, says Mr. Marsden, "they may with propriety be termed, are composed of the inner bark of a certain tree (a species of palm) cut into long slips and folded in squares, leaving part of the wood at each extremity to serve for the outer covering. The bark for this purpose is shaved and thin and afterwards withhed over word at each extremity to serve for the older covering. The bark for this purpose is shaved smooth and thin, and afterward rubbed over with rice water. Their pon, when writing on the polished bark, is a twig, or the fibre of a leaf, and their ink is made of the soot of damleaf, and their ink is made of the soot of dammar gum mixed with the juice of the sugarcane." Their literary works, and they are very numerous, are chiefly rude treatises on the madical properties of plants and fabulous chronicles of their country, stories of necromantic feats, and works on divination, which latter they consult on all important occasions. The proportion of people who are able to read and write is much greater than those who are not.

he sought aid against the Turks.

BATAN, the principal island of the Bashes or Batanes group, in the Malay archipelago, and included with the Philippines. It is 12 miles long by about 4 miles wide, and its surface is occupied principally by mountains, covered with luxuriant vegetation. The highest peak, which has an elevation of 5,000 feet, is supposed to be an extinct volcano.

BATANGAS. I. A province in the southwestern part of Luzon, one of the Philippine islands. The greater part of its surface is level

an indistinct groove lengthwise. The stem is round, as thick as a goose-quill, violet with white spots, rooting easily when left creeping on the ground; the leaves are generally opposite, triangular, heart-shaped, acuminate, with petioles, 1 inch long; flowers, spike-like, in the axils of the leaves, the male ones small and yellowish; 6 scales of the involucre. The rhizome, or tuber, penetrates about 3 feet deep, straight down into the soil; is thickest toward the lower end, attaining the size of a man's

BATANGAS. I. A province in the south-western part of Luzon, one of the Philippine islands. The greater part of its surface is level and very fertile, producing coffee, cotton, cacso, ielands. indigo, maize, nutmegs, pepper, etc. A portion of the province is, however, mountainous, and come of the summits attain a considerable elevation. In its central part is Lake Bonbon, or Tael, 12 miles long and 10 wide. In this lake is an island, containing the crater of a volcano, which is still active, and in the midst of the crater is a small lake, the waters of which contain large quantities of sulphuric acid. It was this crater into which Dr. Kane descended in This lake is navigable for small boats, and has no communication with the larger lake which surrounds it. There are a few manufactures, and cattle raising is carried on to a considerable extent. The cattle are excellent, and are sent to the market of Manila. II. A town, the capital of the above province. It is situated on a buy, opening into the strait of Manila, and has a good trade with the city of that name. It was founded in 1581, and contains a number of handsome buildings. Pop. of the province, 180 937; of the town and district 17 390.

or handsome buildings. Pop. of the province, 180,937; of the town and district, 17,380.

BATATAS, the aboriginal name of 3 different plants, and the prototype of the French patate and English potato. B. edulis (or convolcutate and English potato. B. edutis (or convolcu-tus batatus) is the sweet potato, of the class pentandria monogynia. Solunum tuberosum, the common potato, is a nightshade of the same order, but of a different natural family, and the diosecorea batatas of Decaisne is a species of yam, the subject of this article. This genus belongs, with few others, to the natural family of dios-coridacco of Endlicher's class artorhiza or bread roots of the monocotyledonous division, while the 2 former belong to the dicotyledonous, and It was placed in the Linnman dioacia herandria. It was placed in the Linnman allowed nevanuria. The French call this species igname de Chine Chinese yam), and some botanists, dioscorea japonica. It is very extensively and carefully cultivated in various parts of China, especially about Nankin, and in Fu-kien, under the name of shoo-yu and sain-in, being as generally used as our potato here. We have 2 species in the northern United States growing wild. Other northern United States growing wild. Other species are cultivated by the aborigines of Oceanica, Africa, and South America, between the tropics. A co-genus, tamus communis, yields ahoots like asparagus, and is eaten in the southern parts of Europe after being well boiled. The D. batatas is a shrub, twining leftward, with a vertical root, covered by a yellow-brown epidermis, emitting many short rootlets and having

straight down into the soil; is thickest toward the lower end, attaining the size of a man's wrist; it tapers upward to the thickness of the little finger; its parenchyma is opal-white, brittle, with milky, mucilaginous, sweetish-acrid sap, and scarcely any woody fibres. It is cook-ed by boiling as soon as the sweet potato, and in half the time required by the common pota-It may be baked under hot ashes, and becomes, in both cases, mellow and dry, as fine and white as wheat flour, and as insipid as the common potato, for which it may be easily mistaken. The smallest ripe tubers weigh about 2 drachms; the largest, over 2 lbs. The tubers pass the winter underground unharmed, even in France, where they were introduced in 1849 from Shanghai. They are preserved by the Chinese Shanghai. They are preserved by the Chinese in straw covered by earth during the winter, not being so liable to decay as the sweet potato, and standing cold better than the common potato, nor sprouting in cellars so easily as the letter. Whole tubors when planted viald the latter. Whole tubers, when planted, yield the best crop; but transverse slices of 2 to 4 inches produce also fine tubers, and even the stems laid best crop; but transverse suces of 2 to 2 inches produce also fine tubers, and even the stems laid into mellow ground root easily, and furnish good plants. Owing to the depth to which the root penetrates, the soil ought to be sandy, well spaded, well manured, and separated into hillocks, in rows, so that the digging may be rendered easy. Hocing is not required, and poles may be dispensed with. According to many experiments of Decaisne, in Paris, of Hardy, in Algiers, and of many others, the yield of the batatas is double that of the common potato, all circumstances considered. It has been introcircumstances considered. It has been intro-duced into the United States, and has been cultivated with some success in New York, and some of the western states. This species, as well as others of the dioscorea, are also propagated by the bulbs that follow the flowers, and emit radicles and a shoot, even while yet on the

regions, as emetic, aperient, diuretic, purgative, or febrifuge.

BATAVI, a tribe or portion of the ancient Catti, a nation of Germany. They left their original country, though precisely at what period is not known, and settled on an island formed by the main stream of the Rhine, the Vahalis, now Waal, a branch of this river, the Mosa into which the Vahalis flows, and the ocean. This island was known as *Insula Batarorum*, and was

plant, as some lilies do. Some plants of this family contain an acrid juice and are employed

as a cure for bruises, swellings, and goitre; as antidotes against snake-bites, and, in different regions, as emetic, aperient, diuretic, purgative,

muty, which resulted in the conquest of Java by the latter. Weltevreden is also the seat of the chief military and civil prison of the island; and at this place an American citizen, Capt. Walter M. Gibson, of South Carolina, was held prisoner, during the years 1852 and 1853, which gave rise to discussions between the governments at Washington and the Hague. The local affairs of the province and city are administered by a resident, and assistant resident, and 6 commis--In 1852, there belonged to the port sioners. of Batavia, 2 steamships, and 32 square rigged vessels, amounting to 7,200 tons. By the provisions of the consular convention made between the U.S. government and that of Holland, in 1856, an American consul is now permitted to reside at Batavia. Double tonnage duty and 121 per ct. export duty are charged on foreign cominerce; and the port regulations are illib-

commerce; and the port regulations are illiberal and onerous.

BATAVIA, a village and township of Genesee county, New York. The village is situated on Tonawanda creek, on the Buffalo and Rochester railroad. Two other railroads connect it with Attica and Corning. It is the capital of the county, and contains churches of various denominations, 2 banks, 3 newspaper offices, and over 40 stores. Its neatly built dwellings and its wide streets lined with handdwellings and its wide streets lined with hand some trees, give it a pleasing appearance. It was incorporated in 1823. Pop. of the township in 1855, 5,304; of the village, 2,868.

BATAVIAN REPUBLIC. After the con-

quest of Holland by the French in 1795, and the flight of the Orange family to England, a Dutch republic was organized upon the model of the French republic, which was called from the ancient name of the country the Batavian republic. The new republic was obliged to cede to its powerful conqueror some of the southern portions of its territory, included in which were the cities of Maestricht and Venloo, and the province of Limburg; to pay France 100,000,000 florins, and to receive French garrisons into its fortified places. In a war with England the republic saw its fleet annihilated, its ports blockaded, its colonies devastated, and the rich island of Ceylon transferred from its own to British dominion. The Batavian conquest of Holland by the French in 1795, and own to British dominion. The Batavian conown to British dominion. In Batavian constitution was several times modified, without, however, relieving the misfortunes of the country, and at length the legislative body, urged by Napoleon, changed the republic into a kingdom, and offered the crown to Louis Bonaparte, who, on June 5, 1806, was proclaimed king of Holland.

BATE ISLAND is situated at the south-

western extremity of the gulf of Cutch, western Hindostan, lat. 22° 3′ N., long. 69° 10′ E. It has a good harbor, and was once a rendezvous of pirates. The island is frequented by throngs of Hindoo pilgrims, and the population of the town consists chiefly of Brahmins. It forms part of the province of Guzerat.

BATE, George, an eminent English medical practitioner, who was successively physician to

practitioner, who was successively physician to Charles I., Oliver Cromwell, and after the resto-

ration, to Charles II. He wrote a historical sketch

ration, to Charles II. He wrote a historical sketch of the revolution, and other works in Latin. BATEMAN, CHARLES PHILIP BOTELER, a British admiral, born in 1775, died at his residence, Corston, near Bath, Nov. 23, 1857. He was the only son of Capt. Bateman, who distinguished himself as a navigator in the 18th century, Bateman Bay, on the S. E. coast of Australia, being called after him. He entered the navy in early life, and was a midshipman on board the Penelope, when she captured the French frigate Inconstante, in 1793. Subsequently he took an active part in the attack on Guadeloupe, and in the seizing of Demerara, Guadeloupe, and in the seizing of Demerara, and was wounded on both occasions. In 1802, after having, in the preceding year, served as lieutenant of the Monarch at Copenhagen, he was made commander. At the defence of Cadiz in 1812, he commanded the British fleet as senior captain, and also cooperated with the army under the duke of Wellington in Spain. Shortly before his death he became a full admiral in the reserve list.

BATENITES (Ar. bathen, inward or esoteric),

an apostate Mohammedan sect, and powerful society of murderers in the east, who, known also by the name of Ismaelites, Kirmatians, assassins, and followers of the old man of the mountain, spread terror through the Levant in the 12th and 13th centuries. They appeared in the time of the first contests between the Fatimite and the Abbasside caliphs as a religious Fatimite and the Abbasside caliphs as a rengious or philosophical sect, and under the name of the "family of wisdom" extended themselves widely through Egypt, Syria, and Persia. They had a chief master, were divided into 7 ranks, and were accustomed to meet together, clothed in white, in a general assembly. The lower and were accustomed to meet together, clothed in white, in a general assembly. The lower orders believed the Koran, but the higher ones substituted pantheism and free thinking for the faith of Islam. Hassan ben Saba, a descendant of the prophet, a native of Persia, and a disappointed politician at the court of Bagdad, was in 1090 initiated into the mysteries of the family of wisdom at Cairo. He immediately put himself at its head, and having returned to Asia transformed it from a religious to a military sotransformed it from a religious to a military society, surprised the fortress of Alamut in the mountains of Persia, which he made the centre of his dominion, assumed the name of the old man of the mountain, which was borne also by his successors, and began his occupation of plotting and effecting the death of the princes, nobles, and eminent persons of the surrounding nations. His orders were readily obeyed by a troop of resolute young men, who cultivated murder as a fine art, and believed that to commit it skilfully was the true object of life, and who, before departing upon any expedition, in-toxicated themselves with the opiate hashish, whence they were called hashishins, a name which, in passing into the western languages, became assassins. Hassan dreamed of universal power, and thought to attain to it, not by overthrowing empires by battles, but by de-stroying kings with poniards. He died after

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tent, but a singular facility for acquiring the knowledge needful for a commercial career. There he soon attracted the notice and regard of Mr. Gray's father, afterward lieut.-governor of Massachusetts, and, during the middle and all the latter portion of his life, the leading merchant of New England. Into his employment Mr. Bates soon passed, and even before he had attained his majority was much trusted by both father and son, in difficult and large affairs. But troublesome times soon came; the embargo, the non-intercourse, and the war with England. Mr. Gray, who usually had, at least, 40 square-rigged vessels affoat, suffered from frequent captures, made both by France and England, and despatched Mr. Bates to the North of Europe to protect his interests there complicated in themselves, and much disturbed complicated in themselves, and much disturbed by the course and consequences of the war. This brought him into relations with some of the great commercial and banking houses of Europe, especially those of the Hopes and the Barings; and, having the control of Mr. Gray's affairs all over Europe, for several years after the peace, he was led to a connection so free and intimate with them, that they, too, became aware, as Mr. Gray had long been, of his re-markable talent and judgment in whatever remarkable talent and judgment in whatever remarkable talent and judgment in whatever re-lated to the commerce of the world. In the year 1826, through the influence of Messrs. Baring Brothers and Co., he formed a house in London, in connection with Mr. John Baring, son of Sir Thomas Baring, under the firm of Bates and Baring. On the death of the late Mr. Holland, these gentlemen were both made partners in the house of Baring Brothers and Co. partners in the house of Baring Brothers and Co., of which Mr. Bates has ever since been an active and efficient member, and to which his uncommon abilities, knowledge, and judgment, have given not a little of the power it now exercises over the greater interests both of Europe and of On one occasion, at least, this action lirect and official. For when, in the has been direct and official. year 1854, a commission was arranged with full powers to make a final settlement of all claims from citizens of the United States on the British government, and from subjects of Great Britain against the United States, but chiefly for spoliations committed during the war of 1812– '14, Mr. Bates, under the provisions of the treaty, was appointed umpire between the English and the American commissioners, in all cases where they should disagree. sition was an honorable and delicate one, involving not only great pecuniary interests of individuals, but the feelings of the respective countries toward each other, which might easily have been roused by imputations of injustice or unfairness. The two commissioners, as had been foreseen, often disagreed. Mr. Bates decided between them, plainly, promptly, and faithfully; and it is enough to say of his deciand sions that the voice of complaint regarding them has not been heard in either of the coun-tries between which he was thus called to hold the balance. But long before this period,

while he was yet a young clerk in Boston, and living at a distance from his family and its resources, he was eager, as he always had been at home, to improve himself by severe self-cul-ture. He sought, therefore, on all sides, for good books and for a good public library. Neither was easily to be had. There was, at that time, hardly an institution in New England deserving the name of a public library, and certainly none that was accessible to him or to any young man in Boston whose position was like his. The books, indeed, he got, and so laid the foundations for his future success; but he never has ceased to remember the difficulties he encountered in obtaining them. When, therefore, in 1852, he chanced, by a mere accident, to read the official report of a plan for establishing a free public library in the city of Boston, he v struck with the project as one which, if it could be carried out in the spirit in which it had been conceived, would be of permanent benefit to the city, and especially to the young men there who might be situated as he had been above 40 years earlier. He determined, therefore, at once, that such a project should not fail for want of means, and wrote immediately to the mayor of Boston, offering to contribute \$50,000 toward its success, annexing no conditions to his munificence except that the income of his fund should annually be spent in the purchase of good books of permanent value and authority, and that the city should always provide comfortable accommodations for their use, both day and evening, by at least 100 readers. Nor did he stop there by at least 100 renders. Nor did he stop there. As soon as a suitable building was undertaken he began to send books for it in no stinted numbers, so that when its halls were dedicated Jan. 1, 1858, between 20,000 and 30,000 volumes, over and above all that had previously been purchased by the resources of his fund, were waiting to be placed on its shelves. wise beneficence, therefore, which gave the decisive and guiding impulse to this important institution, and which still continues to foster and enlarge it, will, in all future time, render the city of Boston his grateful debtor, and preserve, through the successive generations of its people, a fresh recollection of the large space he filled in the interests of the stirring age in which he has lived.—Mr. Bates was married in 1813 to Lucretia Augusta, of the Boston branch of the Sturgis family, by whom he has only one surviving child, Madame Van de Weyer, wife of the eminent statesman, who has more than once been called to administer the government of Belgium, and who is now its representative at the court of St. James. BATES, THOMAS, an English farmer, re-

markable for his success in improving the breed of cattle, to which he devoted himself through a long life. He resided at Kirkleavington, a long life. He resided at Kirkleavington, where his farm was visited by all lovers of fine

He died Aug. 22, 1849.

BATES, WILHAM, an eminent English non-conforming clergyman, born Nov. 1625, died July 14, 1699. He was one of the commission-

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1810, was 2,490; 1820, 8,026; 1830, 8,778; 1840, 5,141; 1850, 8,020; 1857, about 12,000.

BATH, a post village in the township of Bath, capital of Steuben co., New York, lies on Conhocton creek, 20 miles N. W. of Corning. It contains 6 churches, a bank, 3 newspapers and some mills and factories. The Buffalo, Corning, and New York railroad passes through the place. The neighboring country is fertile and thickly settled. Pop. of township, in 1855, 6,031; of village, 2,012.

BATH, or BERKLEY SPRINGS, the capital of Morgan country, Virginia, distant about 3 miles from the Potomac river and the Baltimore and Ohio railroad, and 186 miles N. N. W. of Richmond. The place is much visited by invalids,

mond. The place is much visited by invalids, the water of the springs being deemed very efficacious in cases of neuralgia, dyspepsia, and chronic rheumatism. The temperature is 74° F. BATH, a post village of Richmond county,

BATH, a post village of Richmond county, Georgia, much frequented by planters in the summer. It lies 20 miles S. W. of Augusta.

BATH, a city in England, co. of Somerset, 108 miles W. of London, by Great Western railway; pop. 54,240. It is, perhaps, the handsomest city of England, built chiefly of free-stone and upon the sides of high hills; the city rises in a succession of terraces, circuses, and gardens, displaying, at one view, a noble archigardens, displaying, at one view, a noble archi-tectural landscape. It is traversed by the river Avon, and is in the midst of a beautiful country. It is a place of resort for invalids, on account of the hot springs, from which the city derives its name, and which are beneficial in palsy, rheumatism, gout, and scrofulous and cutane ous affections Their character is alkaline sulous affections. Their character is alkaline sulphureous, with a slight proportion of iron. There are 3 springs of a constant temperature of 109°, 114°, and 117° F. The hot spring yields 128 gallons a minute. Bath was formerly a place of great fashion and gayety, and the celebrated beau Nash presided as master of ceremonies over its festivities. In the last century and commencement of the present, it was at the height of its celebrity, but the opening of the continent after the war diverted the of the continent after the war diverted the stream of visitors toward the German spas. Owing to its numerous conveniences and contiguity to London, and the magnificent mansions and country houses in its immediate vicinity, it is still much frequented, and, on account of its mild temperature is a fewerite account of its mild temperature, is a favorite residence of elderly people and invalids. The city is one of the most ancient in Britain, and was reputed to have been founded before the Roman invasion. Joined with the city of Wells, it is a bishop's see. The city has an abbey church, a relic of an ancient monas-tery. There are well-supported hospitals for tery. There are well-supported hospitals for general purposes, and for the uses of those poor who resort to the city for the sake of the baths. In the days of its meridian glory, Bath was the residence of several men of political distinction, in particular of Pitt and Sheridan. William Beckford, the author of "Vathek," as remarkable for his eccentricities

as literary taste, resided and died at Bath. borough is also remarkable in modern legislative history as the constituency of Mr. Roebuck and of Lord Duncan, 2 very active liberal members. In the vicinity are the celebrated mansions of Longleat, the seat of the marquis of Bath, Fonthill abbey, and Bowood, the seat of the marquis of Lansdowne.

BATH, a place for bathing, a vessel for containing water in which persons may plunge or wash their bodies. The bath was used from the earliest times of which we have any record. The heroes of Homer not only bathed in the sea or rivers, but refreshed themselves also in the natural warm springs, and in vessels arti-ficially heated. Thus the royal princess Nausicaa was accustomed to bathe in the river of Phæacia, whither Ulysses also was conducted for a bath after his arrival in the realm of Al-Homer celebrates the streams of the Scamander as being naturally warm and agreeable to bathers, and, according to the later poets, hot springs were the baths of nymphs. In ar-tificial baths the vessel is described as of polished marble, like the basins which have been discovered in the Roman baths, and seems not to have contained water itself, but to have been used for the bather to sit in while water was poured over him. Thus a warm bath was adused for the bather to sit in while water was poured over him. Thus a warm bath was administered to Ulysses, in the palace of Circe, and Telemachus was led to the bath by the fairest of the slaves of Menelaus, after which he was perfumed with precious essences. In the historical periods of Greece, bathing rooms were a part of the dwellings of kings and of wealthy citizens, and the laws of hospitality prescribed the immediate tender of a bath to strangers. There were immense public baths to which the citizens in general resorted, the same apartment being used by both sexes. At Athens, baths were attached to the gymnasia, Athens, baths were attached to the gymnasia, and Plato made public baths one of the institutions of his perfect republic. Thus the bath was a source of health and pleasure to the Greeks long before the Romans borrowed the custom.—Concerning the bathing habits and establishments of the latter, however, our knowledge, derived from books, from the ruins which still exist, and, above all, from the bath which was some years since (1824) exposed at Pompeii, is much more ample. In the better days of the republic, according to Seneca, the bathing-houses were small, dark, and inconvenient; they were placed under the superintendence of the adiles, and contained warm and cold baths alone. was not until the days of the empire, that the immense therms were crected, whose ruins still amaze the traveller, and perplex the antiquary. The public bath at Pompeii, though, being destined for the use of a small provincial town, it was inferior in size and appointments to those of the capital, was similar to them, probably, in its internal arrangements, and contained all their essential parts. It occupied a plot of ground of irregular figure, embracing a superficial area of about 10,000 square feet. It conBATH 788

ing is furnished. To frequent the bath is even a greater obligation than to go to the mosque, and it is customary, especially for the women, to make it an occasion for reunions, and after bathing to take coffee together. The modern bathing to take coffee together. The modern Turkish and Arab baths show the indolent and remains of old Arab baths, built in the time of Moorish conquest, in Barcelona, Granada, and other cities of Spain, which have a more plendid though less luxurious character, and indicate a more vigorous national spirit.—In India, also, there are public baths, which are associated with the practice of shampooing. The bather is extended upon a plank, and a vigorous attendant pours hot water over him, presses and bends the various parts of the body, cracks all the joints, and continues this operation of pouring, pulling, and pressing for about half an hour. He then rubs him briskly with a hair brush, with soap and perfumes, after which the Indian is obliged by his fatigue to sleep a few hours, but wakes extremely refreshed. The women in India take extremely refreshed. The women in India take a lively pleasure in being shampooed by their slaves, and Europeans who enter upon the pro-cess with a sort of fear describe the sensation which results as delightful and peculiar.—In which results as delightful and peculiar.—In Egypt public bathing is a very complicated art. The person having left his dress in the reception room, proceeds through a long gradually warmed passage into the spacious bathing room, in which the steam of boiling water and the perfumes of burning essences are combined. He there reclines upon a kind of hammock, and when he has passaged sufficiently the process when he has perspired sufficiently, the process when he has perspired sufficiently, the process of shampooing is performed upon him. He then passes into an adjoining apartment, where his head is profusely covered with the foam of soap, and his body with a kind of pomatum. In 2 other rooms he is washed with both warm and cold water, and he returns to the open air as he entered, through a long passage the temperature of which is graduated. The whole expense for passing through one of The whole expense for passing through one of these baths is about an American half dollar, but the Egyptian populace generally prefer to bathe themselves, or to take a partial course in the public baths.—The northern nations have also their peculiar usages in respect to bathing. The Russian lord has his bathing room in his own house, and the people in the villages frequent the public bath at a small expense. The entire operation consists, first, of a perspiration, then of friction, and of successive ablutions in hot and cold water. The poorer people, however, adopt a simpler method. They remain in the bathing-room only till they begin to perspire freely, and then rush out and throw themselves, perhaps through a crust of ice, into the nearest stream or pond, thus exposing themselves suddenly to the extremes of temperature, and tempering themselves as steel is tempered. Among the Russians of Siberia, the bath is especially in use as a means of driving off the effects of a violent cold and preventing fever. The person is taken entire operation consists, first, of a perspiration,

into the bath-room and placed upon a shelf within an inch or two of a steaming furnace. After he is well parboiled in this position, he is drubbed and flogged for about half an hour is drubbed and flogged for about half an hour with a bundle of birch twigs, leaf and all. A pail-full of cold water is then dashed over him from head to foot, the effect of which is described as electrifying. He is next put in an exhausted condition to bed, and physic is administered to him. It is rare that a fever does not beat a retreat after a few repetitions of the bath and the physic. Mr. Bayard Taylor, in his winter travels in Lapland, gives an account of similar baths. The bather is placed on an elevated platform, and vapor produced on an elevated platform, and vapor produced by throwing water on heated stones beneath. In that barbarous country the whipping with twigs is performed by women.—The use of the bath has not marked the manners of the most civilized modern nations, as it did those of the polite nations of antiquity. Yet it is less neglected now than formerly, and public baths, though they are not centres of resort for the people, are found in all large cities, and private baths are common in dwelling houses.—HYGIENE OF BATHING. To bathe, in the widest senso of the word, is to surround the body, or a portion of it, for a temporary period, by a medium different from that in which it usually exists. The medium may consist of air or vapor, of water, either pure or holding various substances civilized modern nations, as it did those of the water, either pure or holding various substances water, either pure or holding various substances in solution, or finally, even of sand or mud. The body may be wholly or partially immersed in the medium, as in the ordinary plunge bath, the foot bath, hip bath, &c., or the medium may be poured with greater or less force upon the body, as in the shower and douche bath. The temperature of the medium as it is more than the shower and douche bath. The temperature of the medium, as it is warm, hot, or cold, modifies powerfully the effect of the bath. In the present article, we shall confine our attention to the effects of the ordinary water bath, and of the hot air and vapor baths. The temperature at which the water bath may be taken varies from 32° to 112°, or even 120° F., and baths are ordinarily divided into cold, warm, and hot, according to the sensation they communicate to the bather. These sensations, it must be recollected, are no very accurate measure of the true temperature; the water which to one person seems warm, to another feeling cool. Systematic writers have further multiplied these divisions; perhaps the most convenient among them is the following, proposed by Dr. John Forbes. He divides the water baths into

The cold be	th,	from	82° to		F.
The cool	** '	•	6 0° to	75°	
The temp.	4	14.	75° to	850	
The tepid	64	4	85° to	93°	
The warm	44	•	92° to	96°	
The hot	•4	4	95° to	1120	

On plunging into cold water the bather experiences a shock attended with a sensation of cold that may amount to rigor, and with a sudden catching of the breath, caused by the contact of the cold fluid with the surface of the face and trunk; in some persons this spasmodic anhe-

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immersion should be sudden, complete, continued but for a few moments, and the child should immediately afterward be well and should immediately afterward be well and thoroughly rubbed with dry flannels.—The effloct of the warm bath is very different from that of the cold bath. There is no shock; on the contrary, the temperature is grateful to the bather. The blood is solicited to the surface, which becomes full and rounded; rings, which in the cold bath slipped from the fingers, are more fixed than under ordinary circumstances. The cuticle absorbs water and is softened, and the epithelial debris are readily removed. The pulse is unaffected, irritability of the nervous system is soothed, pain dependent on spasmodic action or neuralgia is allayed, and the relax-ation of the skin extends to the deeper seated Its beneficial effects are specially recognizable after excessive muscular exercise or after the fatigue and excitement of a long journey, in refreshing and tranquillizing the system. On the other hand, the warm bath exercises none of the tonic and astringent influence which is produced by the cold bath; its frequent use tends to relax and debilitate, while it renders the system more sensible to the variations of external temperature.—The hot bath, 98°—112° F., produces at first an inconbath, 98°—112° F., produces at first an inconvenient and even painful sensation of heat; from the determination of blood to the surface, it soon becomes reddened and swollen, the face is turgid, the eyes injected; the action of the heart is increased, the pulse becomes fuller and heart is increased, the pulse becomes fuller and more frequent, the carotid arteries in particular beat with violence; the breathing is oppressed, there is a painful sensation of weight about the head; soon the parts not covered by the water break out into a profuse perspiration, which only partially relieves the discomfort of the patient. On leaving the bath the excitement does not immediately subside; the pulse continues to beat with force and frequency, the extremities, particularly the lower, remain swollen, the patient perspires abundantly, while the secretion of urine is diminished; there is a the secretion of urine is diminished; there is a sense of muscular fatigue, and the whole system is relaxed and weakened. The hot bath should only be used therapeutically, and even then the cases to which it is applicable are not numerous.

—Beside the cold and warm water bath, the body may be exposed to the action of air artificially heated or to the vapor of boiling water; the former, the laconicum, was habitually employed by the Romans, the latter is much used by the Rus sians, the Turks and the Egyptians. The effects of both, when the temperature is much elevated, are at first highly stimulating. The beat of the heart is increased in force and frequency; the pulse rises to 90, 100, 120, and even 150 or 160 beats in a minute; the blood is driven powerfully to the surface, the face becomes flushed, the eyes injected and suffused, the skin turgid, and the bather soon breaks out into a profuse awast; if the temperature is very high profuse sweat; if the temperature is very high and long continued, after a time the whole mass of the blood becomes heated above its

normal standard (see ANIMAL HEAT), and this may be attended with dangerous or fatal consequences. Owing to the free evaporation from the surface, the hot air bath can be borne of a much higher temperature than the vapor bath The ordinary heat of the Russian or oriental bagnio is from 120° to 140° F., though it is occasionally raised as high as 180° or 190° F.; while, when the air is moderately dry, a temperature of from 200° to 270° F. has been borne for some time with impunity.

and

BATH, EARL OF. See PULTENEY, WILLIAM. BATH, KNIGHTS OF THE, a military order in Great Britain, for which an origin as remote as the time of the first crusade has been supposed, but which is first distinctly mentioned in the reign of Henry IV. It is related by Froissart that, at the coronation of that king in the tower of London, in 1399, 46 esquires were made knights, and were called knights of the bath, because they had watched and bathed during the night preceding, and that they wore on the occasion long coats trimmed with white fur, and had white laces hung about their shoulders. From that time it was usual for English kings to create knights of the bath on occasion of celebrating what were deemed important events, as at the coronation of themselves or their queens, the birth or marriage of princes or princesses, on the eve of starting upon foreign military expeditions, and after gaining a battle or taking a town. At the coronation of Charles II., 68 knights of the bath were made, but the II., 68 knights of the bath were made, but the order was then neglected and discontinued, till in 1725 George I. revived it by letters patent. He gave a book of statutes for its government, by which it was decreed that the order should consist of the sovereign, a grand master, and 86 companions. Its badge, of pure gold, was to be a sceptre of 3 united imperial crowns, from which grew the rose, the thistle, and the shamrock, and around which was inscribed the specient motto. Tria innets in use. It was to ancient motto, Tria juncta in uno. It was to be hung by a red ribbon from the collar ob-liquely over the right shoulder. The collar should contain 30 ounces troy weight of gold, and be a complicated arrangement of 9 crowns and be a complicated arrangement of 9 crowns and 8 roses, thistles, and shamrocks, the latter being enamelled in their proper colors, and attached to the crowns by gold knots enamelled white. A silver star also, made to resemble the badge, and with a glory or rays proceeding from its centre, should adorn the left shoulder of the knight, being embroidered upon the left side of his mantle. The apparel of a knight of the bath was ordered to be a red surcoat, lined the bath was ordered to be a red surcoat, lined and edged with white and encircled by a white girdle, a crimson mantle lined with white and stened about the neck with a cordon of white silk, a white silk hat surmounted by plumes of white feathers, white boots, red stockings and breeches, and a sword in a white leather scab-The order was thus raised to a splendor and dignity which it had not before enjoyed, and in 1815, after the long and terrible wars in which England had been engaged, the prince

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principality to Rudolf, on the promise of being made bishop and cardinal. Notwithstanding some violent opposition on the part of the deputies, one of whom was put to death, this transfer was effected in 1598, and Bathori retired into Silesia. But, after waiting several months in vain expectation of the promised bishopric and earliestly but he returned to Transylvania. and cardinal's hat, he returned to Transylvania, reassumed the princely office, and immediately transferred the same to his brother Balthazar. He then retired into Poland, but, on the death He then retired into Poland, but, on the death of his brother, returned, and again assumed the government of Transylvania. He was soon, however, compelled by the emperor to resign for the 3d time, and, having received from him a pension and an estate, finally died at Prague, March 27, 1613. V. ELIZABETH, the wife of a Hungarian count, renowned and exerted for her remorseless cruelty. Believing crated for her remorseless cruelty. Believing that the blood of young maidens would restore freshness and bloom to her shrivelled skin, she caused a great many to be brought to her castle caused a great many to be brought to her castle on various pretences, and then, to obtain the desired bath, nurdered them, with the aid of 3 of her vassals. Her horrible practices were at last discovered, and, with her 3 assistants, she was brought to trial. One of her accomplices, a man, was decapitated, the other 2, who were females, were burned alive, and the countess herself was thrown into a dungeon, where after herself was thrown into a dungeon, where, after several years of confinement, she died in 1614. BATHURST, a town of New Brunswick,

BATHURST, a town of New Brunswick, capital of Gloucester co., situated on the most southern point of the bay of Chaleurs, and due north-east of Halifax, about 250 miles. It has a good harbor, and is noted for ship-building.

BATHURST, a settlement on the isle of St. Mary, near the mouth of the Gambia, on the W. coast of Africa. It was founded by the English in 1816, and is the principal of the English establishments in Senegambia. It is not a healthy station. The island has about 8,000 inhabitants, few of whom are Europeans. BATHURST, a county and town of New South Wales, in Australia. The county lies between the rivers Lachlan and Macquarie, at the foot of the western slope of the Blue Moun-

the foot of the western slope of the Blue Mountains, and is one of the most fertile regions in Australia. Gold mines were here discovered in 1851. The town, situated in the centre of the gold region, 98 miles W. N. W. from Sydney, was founded by the English in 1815, and is the oldest English town in the interior of ney, was founded by the English in 1810, and is the oldest English town in the interior of Australia. The population of the county in 1851 was 6,405, since which time it has much

BATHURST INLET, an inlet of the Polar sea, projecting due south about 75 miles, out of Coronation gulf. It is in a direct line between the magnetic pole and Great Slave lake, and about 300 miles from each.

BATHURST ISLAND. I. An island off the

I. An island off the north-east coast of Australia. It lies just west of Melville island, and is much smaller than the latter. It is separated from the mainland of Australia by Clarence straits on the south, and from Melville island by Cockburn sound. An island in the Arctic ocean, discovered by Parry in 1819, and the most eastern of the group called Parry islands. It is separated from North Somerset on the S. by Barrow strait, and from North Devon on the E. by Welling-ton channel. It is laid down on more recent maps as a peninsula, being joined to the larger land of Cornwallis island by a narrow isthmus. It lies due south of Grinnell land.

BATHURST, the name of an old English family, who are said to have come over with william the Conqueror. Within the last 3 con-

william the Conqueror. Within the last 3 centuries several of its members have made themselves prominent.—Ralph, dean of Wells, born 1620, died June 14, 1704. He wrote some elegant Latin poems, and (in conjunction with Sir Wm. Petty, Robert Boyle, John Evelyn, Sir Kenelm Digby, Elias Ashmole, Sir Christopher Wren, and others) was one of the founders of the royal society of London, which received a charter of incorporation from Charles II., in 1660, within a months after his restoration. 6 months after his restoration.—ALLEN (earl of Bathurst), born in London, Nov., 1684, died Sept. 16, 1775. He was eldest son of Sir Benjamin Bathurst, treasurer of the household to Queen Anne, before she ascended the throne. Enter-Anne, before she ascended the throne. Entering parliament in 1705, he strongly opposed Marlborough and the whigs. The tories having come into power, he was called to the house of lords, as Baron Bathurst, in 1711, to increase the ministerial majority. In 1757 he was made treasurer to the prince of Wales, and, on the accession of this prince as George III., soon after, declined further public employments, but accepted a pension of £2,000 a year. In 1772 he was created Earl Bathurst, and spent the evenwas created Earl Bathurst, and spent the evening of his life in retirement. As a peer, he opposed the septennial bill, defended Bishop Atterbury, resisted the attainder of Bolingbroke and Ownered and the hill for ellowing services. and Ormond, and the bill for allowing pensionand Ormond, and the bill for allowing pensioners to sit in parliament. He displayed great political hostility to Sir Robert Walpole. Lord Bathurst was on familiar terms with Addison, Gay, Bolingbroke, Prior, Rowe, Congreve, and Pope. The last-named dedicated to him the 3d epistle of his "Moral Essays," and Boswell reports Dr. Johnson to have said, "except Lord Bathurst, none of Pope's noble friends were such as that a good man would wish to have his inti-Bathurst, none of Pope's noble friends were such as that a good man would wish to have his intimacy with them known to posterity."—HENRY, born May 2, 1714, died Aug. 6, 1794, was the only surviving son of the foregoing, by the daughter and sole heir of Sir Peter Apsley. He practised at the bar, and was made chief justice of the common pleas in 1754. He was appointed lord chancellor in 1771, with the title of Baron Apsley, and resigned the seals in 1778, having voted against the Chatham annuity bill, a ministerial measure. He was president of the council in 1780, and was assaulted in the Gordon riots by the mob, who pulled off in the Gordon riots by the mob, who pulled off his wig. He was a man of such grave demean-or and steady habits, that, on one occasion, his father, a bon vicant (then aged 89), having invited a party of friends to meet him, the en400 Turkish drama, and is equal to 16 lbs. 6 oz. 15 dr. avoirdupois.

BATN-EL-HAJAR (the womb of rocks), a

BATN-EL-HAJAR (the womb of rocks), a rocky and desolate tract of Nubia, in Africa, extending on both sides of the Nile, between lat. 21° and 22° N., and long. 30° 35′ and 10° E. The Nile here flows in cataracts and rapids, and amid rocks and islands, but some of the natural obstructions to its navigation have been removed by Mohammed Ali's engineers. The inhabitants are about 200 in number, chiefly Bedouin Arabs, and are described as well made, with fine features, and of a dark brown complexion. Bean trees, and a few date trees and cotton plants, are almost the only vegetable productions, and are cultivated on narrow plots occurring at intervals near the river, the beans furnishing the chief food of the inhabitants. On the western bank of the river are found deserted monasteries, and the ruins of ancient temples and villages. This tract is a dependence of Formst.

are found deserted monasteries, and the ruins of ancient temples and villages. This tract is a dependency of Egypt.

BATNEARS, or Bhattis, a people in the northern part of Hindostan, whose principal city is Bhatneer, 207 miles N. N. W. from Delhi. They are composed of the aboriginal race of Jats and a dominant race of Rajpoots, who are supposed to have migrated into this country about 6 centuries ago. Though Mohammedans, they differ from the followers of the prophet in allowing their women to appear unveiled and to associate freely with men. The Batnears have always been a savage race of freebooters, living a sort of nounadic life, and making predatory excursions into the neighboring districts. The Batnear district was conquered and nearly depopulated by Tamerlane, in 1398. It was again conquered by the bold British adventurer, George Thomas, in 1800; and by the cessions made by Scindia, in 1803, it came into the possession of the British, who, however, have yet failed to correct the lawless and predatory character of the people.

BATOANA a small tribe of the large femily

however, have yet failed to correct the lawless and predatory character of the people.

BATOANA, a small tribe of the large family of Bechuanas, in southern Africa. They dwell upon the borders of Lake Ngami, whither they came as conquerors, and have dispossessed and reduced to slavery the native population, called the Bayeye. They live chiefly by hunting, and are described as deceifful and suspicious.

BATOKA, a curious tribe of men in southern Africa, who occupy 2 considerable islands in the river Leeambye, and the adjacent country on either bank. They formerly held wide sway, and were the theme of numerous fables and superstitions among neighboring tribes, but are now, for the most part, subject to the Barotse. The Batoka universally knock out the upper front teeth of both sexes, at the age of puberty. This causes the under lip to protrude in a most unsightly way, and gives to them a hideous laugh, but yet the Batoka admire it, consider it the type of beauty, and conceive nothing to be uglier than the possession of upper teeth. The Batoka are very degraded, both physically and mentally, and much addicted to smoking

the pernicious mutokwane (cannabis sativa). This produces a sort of frenzy, and makes them after a few puffs break out in a string of half-coherent utterances. Soldiers smoke it on coming in sight of enemies, that they may make an effective onslaught. It is extensively used, not only by the Batoka, but by all the tribes in the interior of southern Africa.

tribes in the interior of southern Africa.

BATON, a staff of office, a sign of authority in all times and among every people. Though generally reserved to eminent persons, as princes, judges, generals, and fathers of a family, yet among the ancient Babylonians it was the custom for every one, on issuing from his house, to take a baton, carved with some distinctive sign—as a rose, a lily, or an eagle. Homer mentions neither crowns nor diadems, but describes particularly the baton or sceptre. The Spartan skytals, or baton of generals, and caduceus, or that of ambassadors, are well known. The baton of the Roman consul was of ivory, that of a pretor was of gold, and that of an augur was terminated by a crooked beak. Similar to the last was the episcopal baton of the middle ages, which afterward assumed the form of a cross. In mediæval and modern times, batons have been most in use in France, where they mark every order and almost every occupation. It was long a fashion in the universities to hold a red baton while interpreting the Iliad, and a yellow baton while explaining the Odyssey.

most every occupation. It was long a fashion in the universities to hold a red baton while interpreting the Iliad, and a yellow baton while explaining the Odyssey.

BATON ROUGE. I. A south-eastern parish of Louisiana, divided into east and west Baton Rouge, and comprising an aggregate area of about 740 sq. miles. The Amite river washes the seatern border, and the Mississippi intersects it, forming the boundary between the 2 divisions of the parish. The surface of the western part is low and flat. It is subject to frequent inundations, and the only available land is on the bank of the river, which is a few feet higher than the general level. On the eastern side of the Mississippi the soil is of better quality, the surface is more diversified, and there are extensive forests of live oak, cypress, and magnolia. The staples are cotton, sugar, and maize. In 1850, the productions amounted to 1,346 bales of cotton, 14,998 hogsheads of sugar, 926,228 gallons of molasses, and 378,692 bushels of Indian corn. There were 6 churches, 2 newspaper offices, and 750 pupils attending public schools. Capital of the eastern division, Baton Rouge; of the western, Baton Rouge Courthouse. Pop. of the E. in 1856, 11,977, of whom 4,350 were slaves; of the W., 6,270, of whom 4,350 were slaves. II. The capital of Louisiana, is on the eastern bank of the Mississippi, 129 miles above the city of New Orleans. It is one of the earliest settlements made by the French colonists, and is said to have been the site of an old Indian village. Various reasons are given for its name, but the most probable seems to be that it was called after a chief whose appellation, translated into French, was the red staff. It has made little progress for some years,

most part in full view, and exposed to the missiles of the defenders, at an exceedingly short range. The former of these objections rendered it necessary, for the most part, to fill in the moats or ditches, in front of the works, by embankments or platforms, up which the engines were gradually advanced. The latter led to the construction of towers of planking, covered with raw hides, of many stories in height, rolling on wheels; in the lower stage of which the ram was slung so that the men who worked it could do so perfectly under cover, while the upper stages were filled with archers and slingers, whose duty it was to overpower the fire of the defenders. From the top of these machines a sort of bridge was also contrived, which could be lowered and hauled out with chains and pulleys so as to fall on the summit of the tower, or castle wall, and give free access to the assailants. These towers, which were the last improvement on the ram, were so arranged that they were not only fought but propelled by men, either within the structure, or placed behind it, in such a manner as to be protected by it from the shot of the enemy. They continued to be in use during all the middle ages, and were still effective, until ordnance was so much improved, that it could be discharged rapidly and with correct aim, which was not the case until several centuries had elapsed after the first introduction of guapowder. Defective as the instrument appears, when compared with the terrific engines of modern war, it was generally successful.

BATTERSEA, a parish and sub-district in

BATTERSEA, a parish and sub-district in the county of Surrey, England, situated 4 miles S. W. of St. Paul's cathedral, and forming one of the suburbs of the metropolis. At the census of 1851, the sub-district of Battersea contained 10,560 inhabitants, and the parish 11,729. The area in statute acres of the sub-district is 2,348 acres. It is much occupied by market gardeners, who supply London with vegetables. St. John, Viscount Bolingbroke, was born and died there.

BATTERY. In field artillery, this expression means a number of guns, from 4 to 12, with the necessary horses, gunners, and equipments, and destined generally to act together in battle. The British and French have 6, the Prussians and Austrians 8, the Russians 8 or 12, guns to a battery. Field batteries are divided into light, heavy, and howitzer batteries; in some countries, there are, beside, mountain batteries. In describing a position for battle, the word battery is also used to indicate any spot where guns are placed. In siege artillery, battery means either any one of the lines of the fortress which is armed with guns, or else, and especially, a number of guns placed in line for the attack of a fortress, and covered by a parapet. The construction of this parapet, and the emplacements for the guns, are what is understood by the construction of a battery. With respect to their profiles, batteries are either elevated, half sunken, or sunken; with respect to their arma-

ment, guns, howitzer, mortar batteries; with respect to the shelter afforded, batteries with embrasures, barbette batteries (without embra-sures), casemated batteries (covered in bomb proof). With respect to the purpose aimed at, proof). With respect to the purpose aimed at, there are dismounting batteries, to dismount the guns in one of the lines of the fortress, parallel to which they are constructed; ricochetting bat-teries, constructed in the prolongation of a line, and destined to enflade it, the balls and shells just passing over the parapet and hopping along the line in low jumps; mortar batteries, to bombard the interior of the bastions and the buildings in the fortress; breaching batteries, to bring down the revetement walls of the scarp of the rampart; counter batteries, erected on the crown of the glacis opposite the flanks, to si-lence the fire of a flank which protects the ditch in front of the breach. Strand batteries are in front of the breach. Strand batteries are intrenchments thrown up on particular points of a sea shore to act against hostile men-of-war; they are either permanent, in which case they are generally constructed of masonry, and often casemated, with several tiers of guns, or temporary earthworks, mostly barbet the batteries to insure a wider sweep; in either case they are generally closed to the rear against a sudden attack by landed infantry. To construct an earthwork battery, the principal dimensions are traced, and the earth procured from a ditch in front or rear of the intended parapet. The outer slope of the parapet is left without revetement, but the interior slope and the cheeks or interior sides of the embrasures are revetted with fascines, gabions, hurdles, casks filled with earth, sandbags, or sods of turf, so as to retain the earth in its position, even with a steep slope. A berma, or level space, is generally left standing between the outer slope of the parapet and the ditch in front, to strengthen the parapet. A banquette is constructed inside the battery, between the embrasures, high enough for a man to stand on and look over the parapet. An intrenchments thrown up on particular points between the embrasures, high enough for a man to stand on and look over the parapet. An epaulment or parapet forming an obtuse angle with that of the battery is often constructed on one or both flanks, to protect it against flanking fire. Where the battery can be enfiladed, traverses or epaulments between the guns become necessary. In barbette batteries, this protection is strengthened by a further elevation of the traverses several feet above the height of the parapet, which elevation is continued across the parapet, which elevation is continued across the parapet to its outer crest, and called a bonnet. The guns are placed on platforms constructed of planks and sleepers, or other timbers, to insure permanency of emplacement. The ammunition is kept partly in recesses under the parapet, partly in a sunken building of timber covered in bomb proof with earth. To shelter the gunners from rifle firing, the embrasures are often closed by blindages of strong planks, to open to either side when the gun is run out, or provided with a hole for the muzzle to pass through. vided with a hole for the muzzle to pass through. The fire of the enemy is rendered innocuous by blindages of timbers laid with one end on the inner creat of the parapet, and aloping to the

ably be composed of very thick forged iron plates, or thinner plates riveted together. She is intended to operate in the waters of New York bay and harbor, from Sandy Hook upward, and is now (March, 1858) about two-thirds completed. All her machinery and boilers and dependencies are finished and in place. BATTERY, GALVANIO. See GALVANIAM.

BATTERY, in law. See Assault and Battery

BATTEUX, CHARLES, a French writer on sesthetics, born May 6, 1718, died July 14, 1780. He made his debut in the literary arena in 1739, by a Latin ode in honor of the city of Rheims, where he had studied rhetoric. He was apby a Latin ode in honor of the city of Rheims, where he had studied rhetoric. He was appointed professor at the collège de Lisieux, at Paris, and at the collège de Navarre, and subsequently Greek and Latin professor at the collège de France. In his writings on the fine arts (Beaux arts réduit à un même principe, Paris 1748) and on rebilecophy (Histoire des Paris, 1746) and on philosophy (Histoire des causes premières, exposé sommaire des pensées des philosophes sur le principe des êtres, Paris, 1769), he opposed mannerism and conventionalities, and strove to bring art and philosophy back to a closer harmony with nature. This theory was diametrically opposed to the opinions of many of his academical friends, and led subsequently to the suppression of the chair which he filled at the collège de France. He was not a man of great depth of thought, but of indefatigable industry and of considerable learning. In 1754 he became member of the academy of inscriptions and belles-lettres, and in 1761, of the

French academy.

BATTHYANYI. I. KASIMIR, count, a Hungarian statesman, minister of foreign affairs during the revolution, born June 4, 1807, died in Paris, July 13, 1854. From his earliest childhood her July 18, 1854. From his earliest childhood he took a lively interest in public affairs, and after having, as member of the Hungarian diet, opposed the Austriau government, he became, at the outbreak of the revolution, one of the promi-nent champions of Hungarian independence, devoting his wealth and influence to the promotion of this cause, and at the same time distinguishing himself on various occasions by his courage and skill on the battle-field. After courage and skill on the battle-field. After having officiated as governor of various provinces, he became minister of foreign affairs, under the administration of Kossuth, and subsequently he shared his exile in Turkey until 1851, when he repaired to Paris, where he died. Although sympathizing with Kossuth in died. Although sympathizing with Kossuth in some respects, he differed with him in others, and addressed, in 1851, a series of letters to the "London Times," in which he reflected rather severely upon Kossuth's character as statesman and patriot. II. Lajos, a member of the same family, born at Presburg in 1809, shot by order of the Austrian government, Oct. 6, 1849. He distinguished himself at an early period by his distinguished himself at an early period by his zeal in behalf of the independence of his country, and after waging a fierce war against the Austrian government, in the diet of which he was a member, he became afterward instru

mental in promoting Kossuth's election to that assembly. For a short time in 1848 he officiated as prime minister of the revolutionary administration. Subsequently he endeavored to bring about a reconciliation between Hungary and the mother country, by proposing to the diet in Nov. 1848, that peace overtures should be made to Windischgrätz, who was advancing with the Austrian army toward Pesth. But the Austrian general refused to listen to the proposition, and the members of the diet and of the administration withdrew from Pesth at the approach of the hostile forces, removing the seat of the revolutionary government to Debreczin. Batthyanyi alone would not desert Debreczin. Batthyanyi alone would not desert his post, and the consequence of his chivalric resolve was, that he was arrested Jan. 8, 1849, and on Oct. 5, following, sentenced by a court-martial, presided over by Marshal Haynau, to die on the gallows. Shrinking from such a degrading punishment he stabbed himself with a dagger, and inflicted so many wounds upon his neck that he could not be hung, and accordingly he was shot. He met his tragic fate, which enlisted much sympathy all over the civilized world, with heroism and resignation. The resentment of Austria extended also to his accomplished wife and his 3 children, who

were expelled from the country, while his property was confiscated by the government.

BATTICOTTA, a village of Jaffna, Ceylon.

It is the seat of a seminary established by American missionaries exclusively for native youths, and contains a Bible association. Pop. of parish

and village, 6,841.

BATTIFERRI, LAURA, an Italian lady, celebrated for her beauty and learning, born at Urbino, in 1518, died 1589. She gained a high reputation by her poetical productions, which are imbued with a spirit of fervent devotion.

BATTLE. The encounter of two hostile bodies of troops is called a battle, when these bodies form the main armies of either party, or at least, are acting independently on their own separate seat of war. Before the introduction of gunpowder, all battles were decided by actual hand-to-hand fight. With the Greeks and Macedoni-ana, the charge of the close phalanx bristling with spears, followed up by a short engagement vith the sword, brought about the decision. With the Romans, the attack of the legion disposed in three lines, admitted of a renewal of the charge by the second line, and of decisive ma-nœuvring with the third. The Roman line advanced up to within 10 or 15 yards of the enemy, darted their pila, very heavy javelins, into him, and then closed sword in hand. If the first line was checked, the second advanced through the intervals of the first, and if still the resistance was not overcome, the third line, or reserve, broke in upon the enemy's centre, or fell upon one of his wings. During the middle ages, charges of steel-clad cavalry of the knights had to decide general actions, until the introduction of artillery and small fire-arms restored the preponderance of infontry. Error that time the superior number of the preponderance of the prepo of infantry. From that time the superior num-

BATTUE 745

incurred would be out of all proportion to the very meagre results to be obtained, and might even cause the loss of the battle. In most cases, a commander will rather break off a battle taking a decidedly unfavorable turn, than engage his last reserves, and wait for the decisive charge of his opponent; and with the present organiza-tion and tactics, this may in most cases be done with a comparatively moderate loss, as the enemy after a well-contested battle, is generally in a shattered condition also. The reserves and in a shattered condition also. artillery take a fresh position to the rear, under cover of which the troops are gradually disen-gaged and retire. It then depends upon the vivacity of the pursuit, whether the retreat be made in good order or not. The enemy will cond his covalva coninct the troops to which send his cavalry against the troops trying to disengage themselves; and cavalry must, therefore, be at hand to assist them. But if the cavalry of the retiring party be routed and his infantry attained before it is out of reach, then the rout becomes general, and the rear-guard, in its new defensive position, will have hard work before it unless night is approaching, which is generally the case. Such is the average routine of a modthe case. ern battle, supposing the parties to be pretty equal in strength and leadership; with a decided superiority on one side, the affair is much abridged, and combinations take place, the variations of which are innumerable; but under all circumstances, modern battles between civilized ernics will not the whole beauther above. ilized armies will, on the whole, bear the character above described.

BATTLE, a market-town in Sussex county, England. The battle of Hastings, between William the Conqueror and king Harold II., which resulted in the overthrow of the Saxon power in England, was fought near the town of Battle, Oct. 14, 1066. On the spot where Harold's banner had been planted, William founded an extensive abbey, the magnificent gateway of which still remains. It contains a church in which are numerous interesting monuments and antique devices

nique devices. BATTLE-AXE (Fr. hache d'arme), an an-ant military weapon of offence. It was uncient military weapon of offence. It was unknown to, or at least unused by, the Greeks or Romans, and would seem to have been of ori-Amazons are always described as armed with the double-headed battle-axe, biponnis, and, in the enumeration of the Persian host at Mara-thon, Herodotus mentions the Sacians as fighting with brazen shields and battle-axes. also, Horace speaks of the Rhæti and Vindelici barbarians of the Pannonian Alps, as armed from the remotest times with Amazonian axes. The axe does not, however, appear to have be-come a general instrument of war until the descent of the Scandinavian nations, all of whom, Saxons, Danes, and Northmen, used some modification of this terrific weapon, which alone was capable of crushing in, or cleaving asunder the linked steel mail, which defied the sword blade or the lance's point. The axe of the Saxons, who were a nation of foot soldiers,

soon assumed the form of the bill, glaive, or gisarms, which, with the bow, became the national weapon of the English infantry. The Normans, who were especially cavaliers, retained the old form of the battle-axe, with a heavy axe-blade forward of the shaft and a sharp spike behind it, beside a point perpendicular to the handle, which could be used for thrusting at an enemy. The battle-axe was carried slung on one side of the pommel of the man-at-arms' saddle, as was the mace at the other: it was of greet weight often 10 pounds man-at-arms' saddle, as was the mace at the other; it was of great weight, often 10 pounds or over, and could be used either as a missile, to hurl which with accuracy both skill and power were needed, or, oftener, as a hand-to-hand weapon at close quarters.

BATTLE BRIDGE, a suburb of London. The name is said to be derived from an engagement fought there between the troops of Boadicea and the Romans.

and the Romans.

BATTLE CREEK, a village in Calhoun county, Michigan, at the junction of Battle creek with the Kalamazoo river. It is in the midst of a productive country, in the vicinity of quarries of superior sandstone, and contains a number of woollen factories, flour mills, saw-mills, machine shops,

factories, flour mills, saw-mills, machine shops, an academy, and several churches. Pop. in 1850, 2,000.

BATTLE FIELD, a parish of England, county of Salop. It derives its name from the battle fought there in 1403, by Henry IV. and the prince of Wales, against the earl of Northumberland. In this contest the royal troops were victorious; Hotspur, the son of Northumberland, was killed, and his ally, the earl of Douglas, taken prisoner.

taken prisoner.

BATTLEMENT, a wall on the top of a buildambrasures. Battlements ing, pierced with embrasures. Battlements were formerly used for defence, but are now generally employed for ornamental purposes. The term sometimes denotes the whole length of this indented wall or parapet, but its application is perhaps more properly restricted to the higher portion of the wall, as distinguished from the embraure.

BATTOGES, BATTACKS, the name given to two thin sticks, formerly used to punish criminals in Russia. The punishment was administered by two persons, one of whom sat upon the head and the other upon the feet of the criminal, who received the blows on his naked

back. This mode of punishment was abousted by Catharine II.

BATTUE, a mode of shooting, introduced into England from the continent of Europe, into England from the continent of Europe, from Germany more especially, where it has long been very popular. It consists in placing the party of shooters at poets, and driving the game up by means of beaters, arrayed at equal distances, and moving in regular order almost contiguous to one another, through the whole tract of woodland country, which is to be hunted. In some cases the array of beaters is circular, and this is generally the case in Germany, where the game taken and killed by this method, consists for the most part of quadru-

In May, ollected by the Moorish traveller. 1820, an account taken from the extract appeared in the "Quarterly Review." Eventually the Arabic professor at Cambridge, the fy the Arabic professor at Cambridge, the Rev. Samuel Lee, resolved upon an abridged translation of the extract, from the original MSS, in the archives of the university, and this translation appeared in 1828, under the auspices and included in the publications of the Oriental translation fund, and is the most admirable vercion extant on the subject. An account from the extract appeared also in W. D. Cooley's "History of Maritime and Inland Discovery," vol. i. A French version of Batuta's travels was published in 1853 (Paris, 4 vols. 8vo). The vol. i. real name of the Moorish traveller was Mohammed ibn Abd-allah el Larrati, but he is generally known under the name of Ibn Batuta, or, as

the French spell it, Batouta.

BATZ, a village of France, in the department of Loire Inférieure, 56 miles W. from Nantes.

The inhabitants, about 8,000 in number, who are chiefly engaged in the working of salt marshes, from which immense quantities of salt are an nually produced, have preserved a peculiar and fantastic costume, and curious usages. There is here a remarkable church of the 17th century, with a square granite tower 200 feet in height.

height.

BAUCIS, and PHILEMON, her husband, Phrygians, entertained Jupiter and Mercury when they, while travelling in disguise, had been refused hospitality throughout their route. Subsequently, while a deluge was caused to destroy the inhospitable people, Baucis and Philemon were saved from destruction. They entreated the code to transform their cotentreated the gods to transform their cot-tage into a temple, in which they could act as priest and priestess, a request which was grant-ed. When they expressed a desire to die together, Jupiter gratified their wishes by chang-ing them simultaneously to trees. The names of Baucis and Philemon are used to signify faithful and true married people.

BAUDELOCQUE, JEAN Loris, a skilful French surgeon and accoucheur, born in 1746, died in 1810, author of L'Art des accouchements and other works on diseases of women and other works on diseases or women dren. Napoleon appointed him to attend children. Maria Louisa during her confinement.

BAUDIER, MICHEL, a French historiogra-pher, born in Languedoc, in 1589, died in 1645, pner, born in Languedoc, in 1881, died in 1843, celebrated for his numerous writings on Turkish, Chinese, Flemish, and French history. His most interesting work is his "Biography of Cardinal Ximenes." His most curious production is his "History of Romieu, Chief Minister of Raymond Béranger, count of Provence." Baudier is supposed to have derived the idea of

writing his history from Dante.

BAUDIN, Nicolas, a French sea-captain and botanist, born on the island of Ré, in 1750, died Sept. 16, 1803, entered the merchant navy at an early age, and in 1786, went on a botanical expedition to the Indies, sailing from Leghorn under the Austrian flag, with a vessel under

his own command. His collections in this expedition, and in a second expedition which he made to the West Indies, were presented by him, on his return to France, to the govern-ment, which promoted him to the rank of cap-tain, and sent him, in 1800, with 2 corvettes, on many interesting observations on the coast. Half of his men died of fatigue and exposure, and he himself soon breathed his last at the Isle of France, on his return. Péron accompanied him and wrote an account of the voyage.

panied him and wrote an account of the voyage.
BAUDIN DES ARDENNES, Charles, a
French vice-admiral, born at Sedan, July 21,
1784, died in Paris, June 7, 1854. In 1812, as
lieutenant in command of the brig Rénard, accompanying an expedition of 14 sail, provided

with munitions from Genoa to Toulon, he conducted his convoy safely into the harbor of St. Tropez, though continually pursued by English cruisers; but his flag-ship was immediately after attacked by an English brig, which he disabled after a desperate conflict, in which 14 of his 84 men were killed and 28 wounded, including himself. himself. After the restoration, in 1816, he re signed, and entered the merchant service. With some of his friends, he conceived the bold plan of delivering Napoleon from St. Helena. After the July revolution he reentered the navy. 1838, he was promoted to the rank of rearadmiral, and received the command of the expedition against Mexico, consisting of 23 ships. His efforts to effect an amicable settlement with

the Mexican government proving fruitless, he bombarded, Nov. 27, 1838, the fortress of San Juan de Ulloa. The fortress surrendered on the following day. Baudin treated the inhabitants with great consideration, and permitted 1,000 Mexican soldiers to remain in the city to maintain order, but on the Mexican government sending reenforcements, he was compelled to resort again to hostilities, which, on Dec. 5 of the same year, resulted in the disarming of Vera Cruz, in the complete defeat of the Mexican army, and in the restoration of peace between the two countries. Baudin was now promoted to the rank of vice-admiral, and in 1840, was sent as military and diplomatic plenipotentiary to the republic of Buenos Ayres, and intrusted with the chief command of the French fleet in

the South American war. On his return to France, he was for a short time minister of marine under Louis Philippe. In March, 1848, he was appointed commander of the French fleet in the Mediterranean, and remained stationed for some time during the Italian out-break off the Neapolitan and Sicilian coast. On May 15, 1848, when Naples was threatened by the lazzaroni and soldiery, the presence of vice-admiral Baudin's fleet kept the rioters in check. Again, on Sept. 8, the French fleet, in conjunction with that of Great Britain, protected Messina against the designs of Filanghieri. Baudin was also successful in recovering, at Naples and Tunis, sums due to French residents.

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in 1839, and after several minor writings, published his "Critiques of the Evangelical History of St. John" (Bremen, 1840), "Critiques of the Evangelical Synopticians" (2 vols., Leipsic, 1840), and in 1850, his "Critiques of the Gospels and History of their Origin" (2 vols.), the Acta Apostolorum, and the "Critiques of the Letters of St. Paul." Of his minor works was to be mentioned the Ludenfrage (Brunswick). are to be mentioned Die Judenfrage (Brunswick, 1848), in which he protested against the emancipation of the Jews, whom he considers as the cause of the ruin of Poland and Hungary, and s the prospective cause of the political ruin of Europe. They are to emancipate themselves by abandoning their Jewish clannishness, religion, and trading in money, and becoming imbued with the principles of general humanity. His Allgemeine Literaturzeitung (Charlottenburg, 1848-'44), his works on the history of the French revolution, on German history since the French revolution and on the causes since the French revolution, and on the causes of the futility of the revolution of 1848-'49, are elaborate productions. They have contributed much toward the dissolution of those vague library and the dissolution of the contribute of the contrib eral ideas, and utopian axioms of popular en-lightenment, which made shipwreck of the Ger-man revolutions. He has served his own party, the democracy, by criticizing it most severely; while he has maintained that the masses are entitled to perfect human happiness, arguing that every political and social system which does not elevate all men to the highest possible deree of mental and moral education, to perfect humanity and mutual equality, is more or less tyrannical, inconsistent, and absurd. In thus taking side with the masses he has never flattered them.—EDGAR, brother of the former, born 1821 in Charlottenburg, near Berlin, first studied theology, then jurisprudence, and on account of a confiscated publication, "The Contest of the Critics with Church and State," was condemned in 1843 to the state prison for 4 years. He was a co-worker with his brother in some of his publications and author of several books of the same sentiments, of which Die Geschichte der constitutionellen Bewegung im südlichen Deutschland während der Jahre 1831-'34 (8 vols., Charlottenburg, 1845-'46), and Bibliothek der deutschen Aufklärer (5 vols. Leipsic, 1845-'47), new he mentioned '47), may be mentioned.
BAUER, GEORG LORENZ, born Aug. 14, 1755,

studied theology in Altdorf, and was minister and professor of theology in Nuremberg, Altdorf, and Heidelberg. He died in the lastnamed city, Jan. 12, 1806. Bauer belongs to the rationalist school in German theology, and owes his importance among his contemporaries to his hermeneutical and exegetical writings, by which he introduced into theology the principle that the Bible, like the works of the old classics, must be interpreted by grammatical and his-torical considerations, and not with reference to theological doctrines. He was among the first to elucidate the dogmatic opinions of the different biblical writers, and to show the differences between them. He also shows the differences ferences between the opinions of the biblical writers on the one hand, and the creed of the Lutheran church on the other, and was the first to write what in German theology is called a biblical theology, that is, a systematic expo-sition of the Christian dogmas as they are contained in the Bible, and in each biblical book in particular. Among his writings are Hermeneutica Sacra V. T. (Leipsic, 1797); Hebrüischs Mythologis des Alten und Neuen Testaments (Leipsic, 1802-'03), Biblische Theologis des Neuen Test. (Leipsic, 1800-'02). Bauer was a great linguist, particularly in the oriental languages, and is the author of a German translation of the Arabian history of Abulfaraj.

BAUER, KAROLINE, a German actress, born at Heidelberg, in 1808. Prompted by a love for the stage also made how didnet of Carleyulo in

the stage, she made her début at Carlsruhe in 1822, and in 1825 appeared at the royal theatre in Berlin, where she immediately became a favorite with the public. In 1826, she contracted a so-called left-handed marriage with Prince Leocalled left-nanded marriage with Prince Leo-pold of Saxe-Coburg, and abandoning the stage lived in London and Paris as Countess Mont-gomery till 1831. Leopold then having become king of the Belgians, and having betrothed himself to the princess Louisa of France, she freely dissolved the tie which united her to him, resumed her former name and profession, and has since then had engagements in Germany and Russia.

BAUER, WILHELM, formerly a non-commis-

sioned officer in the Bavarian army, served as a volunteer in the revolutionary war of the German duchies against Denmark in 1850. There he quenies against Denmark in 1830. There he invented a diving-boat, the model of which he offered unsuccessfully to several German governments. In England he became disgusted with the "circumlocution office," and, in 1855, went to Russia, where the admiralty cheerfully wont to Russia, where the admiranty enterining accepted his offer. He constructed a divingship, and, on June 24, 1856, he, with a naval officer, 8 seamen, and 1 machinist, went down to the bottom of the sea near the harbor of Cron-A letter, written by him to his parents, from the bottom of the sea, was published as a great curiosity. The ship with her crew of 11 ersons remained below the surface for 8 hours, during which time she moved with perfect ease in all directions, forward and backward, up-ward and downward, in a straight line as well as obliquely. Further experiments were crownwith complete success. On August 29, 1856, an experiment was made of exploding ships by means of Bauer's diving-boat, and the ships by means of Baner's diving-boat, and the result surpassed all expectations. The boat is propelled by an Archimedean screw. Steam is generated by means of a burning material which does not emit any smoke. This material is the secret of the inventor, as also an apparatus to keep the air clean. The upward and ratus to keep the air clean. The upward and downward movements are effected by the application of an air-pump. The petards by which ships are exploded are ignited by a galvanic battery within the boat. Three ships may thus be exploded simultaneously, while the boat ittablishing the truth, while the lower or sesthetio perceives immediately, without conscious
reasoning, the elements of beauty. The sesthetic philosophy of the present age has long since
done away with this view; but it is something
to have made, in a clear and soute manner, the
first step toward the foundation of one of the most difficult, intricate, and inexhaustible of all

branches of philosophy.

BAUMGARTEN-CRUSIUS, DETLEY KARL
WILHELM, a German philologist, born at Dresden,
Jan. 24, 1786, died May 12, 1845, studied theology and classical literature at Leipsic; for many ars, connected as teacher and rector with the schools of Merseburg, Dresden, and Meissen; and distinguished for the reforms which he introdistinguished for the reforms which he intro-duced in the schools by his personal example, by his political efforts in the Dresden municipal assembly, of which he became a member in 1830, and also by his writings. The leading idea of his system was to rule the pupils rather by an emlightened spirit of kindness and trust, than by severity of discipline. At the time of the German war of independence he roused the enthusiasm of the German youth by his patrienthusiasm of the German youth by his patri-otic publications. To the stores of classic Gerotic publications. To the stores of classic German literature he contributed pocket editions of many classic writers, and brought out a new edition of Müller's Homerischer Vorschule. He also published a new biography of George Fabribeside miscellaneous, ethical, religious, and travelling sketches.

BAUMGARTNER, ANDREAS VON, an Austrian statesman, born Nov. 23, 1798, at Friedberg in Bohemia; connected for many years with the teaching of mathematics and physics, especially after 1823, at the university of Vienger, the property of the na, until illness forced him to relinquish his academical pursuits. Subsequently he became connected with the direction of the imperial orcelain, tobacco, and other manufactures in porcelain, tobacco, and other manufactures in 1841, with the establishment of electric telegraphs, and at the end of 1847 with the chief management of the construction of railways. After the revolution of March, 1848, he occupied for a third time a seat in the Austrian cabinet as minister of the mining department and of public works, and was afterward consected with the exchange and in 1851 a prometal w nected with the exchequer, and in 1851 a prom-inent participator in the tariff congress at Vienna, where he defended the policy of the government against the claims and attacks of the manufacturers. On May 23, 1851, he suc-ceeded Baron Bruck as minister of finance and commerce, industry and public works, and retained these offices until 1855, when Bruck resumed his seat in the cabinet as finance minister. Baumgartner is president of the Austrian academy of sciences. The annual salary of \$1,-800 formerly paid to him as vice-president of the same institution was spent in meteorological observations. His principal works are on mechanical science applied to art and industry. His most popular work is the *Naturlehra*, which has passed through 8 editions, and is now to be found in all the schools of Austria.

its neighborhood, called the grotto of the Magdalene, is much visited by pilgrims.

BAUR, FERDINAND COMMERCE.

BAUR, FERDINAND CHRISTIAN, professor of eology at Tübingen, born June 21, 1792, the founder of the Tübingen school of theology, theology which applies to the critical examination of the New Testament rather the test of historthe New Testament rather the test of historical philosophy than that of the bare facts of history itself, and whose writings may be classed first among the productions which grew out of this construction upon the New Testament, as his works on the epistles of St. Paul (1835), and his critical examination of the Evangelists, including St. John, St. Luke, St. Mark, and St. Matthew (1847). In these he endeavors to establish the fact that many of the the New endeavors to establish the fact that many of the writings of the Apostles are rather to be taken as indications of the spirit of their times, than as oracular theological declarations. The other class of his writings falls under the head of history of religious dogmas, as "The Christian Chapter or Christian Policians Philosophy." Genesis, or Christian Religious Philosophy" (1835), "The Christian Doctrine of Atonement" (1838), "Of the Trinity and the Incarnation" (1841-'4), and the "Historical Manual of Christian Dogmas" (1847). He has frequently been accused of sympathy with the system of Hegel, but he has only employed Hegel's philosophical analysis of the inner life of history, without identifying himself with the theological de-ductions at which Hegel aims. In the result to which his labors have led him, he claims to have found a counterpoise against the negative philosophy of Strauss. His chief aim is to plant the banner of theology upon the broad platform of the philosophy of history. Among the disciples of his school are many writers of eminence, such as Zeller, Schwegler, and Köstlin lin.

BAURE, BAURES, or BAURES, a river of Bolivia, about 300 miles long. It rises in Lake Guazamire, takes a N. W. course, and empties

Guazamire, takes a N. W. course, and empues into the Guapore.

BAUSSET, Louis François de, a French cardinal, born at Pondicherry in 1748, died in France, June 21, 1824. He was sent to that country when still very young, received ecclesiastical instruction at the seminary of St. Sulpice, entered sacred orders, and passing rapidly through the various grades, was promoted to the episcopacy in 1784. The states of Languedoo sent him as one of their deputies to the meetings of notables, held at Versailles in 1787 meetings of notables, held at Versailles in 1787 and 1788. When the constituent assembly undertook to alter the church establishment, Bausset was one of the signers of the protest preset was one of the signers of the protest presented by the clerical members against the civil constitution imposed upon them. He afterward emigrated, but went back to Paris in 1792, when he was soon incarcerated. He was restored to liberty on the revolution of the 9th of Thermidor. Having obtained all the manuscripts left by Fénélon, he wrote his biography, published in 1808 and 1809, which was received with marked favor. His Histoire de Bossust this day. The Franconian tribe have, of all, made the greatest figure in history, being the founders of the Franconian empire and of modern France, and until this time the most active politicians of Germany. They exhibit the largest proportion of German inventors, city founders and industrialists. The Swabian tribe is the most poetical, philosophical, and literary of all the Germans. While the Boioarians are almost exclusively confined within the present kingdom, the Franconians and Swabians are spread far beyond its frontiers, the first along the middle Rhine, Moselle, Meuse, and Scheldt; the second on both banks of the Neckar and over the Black mountains.—The climate shows about the same average temperature as the north-western coast of Germany, although the country is from 4 to 6 degrees of latitude nearer the equator, and about the same as Bergen in Norway and the eastern coast of Scotland (47° F. being the mean temperature), although situated from 5 to 10 degrees more southwardly than these countries. taking more of the peculiarities of a continental climate, the summers are, of course, warmer, and the winters severer than in the above countries, and admit of the culture of the grape. The southernmost portions of Bavaria being at the same time the highest above the level of the a, and the northernmost in general the lowest the climate is nearly the same all over the kingdom. The southern frontier is formed by the Allgau Alps, reaching to an elevation of over 9,000 feet; thence northward we find a plateau descending slowly to the plain of the Danube, which is from 1,000 to 900 feet above the sea. This is an almost exclusively agricultural region with a realization to the sea. tural region, with excellent pastures along the Alpine regions; with considerable, but little developed, mineral treasures (salt enough for export, iron, coal, 8 quicksilver mines, and a litof almost every other mineral); with few cities, of which Munich, Augsburg, and Passau are important; with a bad system of education; with large forests, picturesque mountain lakes and some extensive marshes and heaths lower down; with much beggary, intemperance, and almost a third of all births illegitimate (in Munich even one-half); with a rich soil, but a slovenly and backward agricultural system; and with a few excellent manufactories in Munich and Augsburg. The Catholic religion is predominant.—The region thence northward between nant.—The region thence northward between the Danube and Main, which, since 1840, have been connected by the Ludwig canal, is hilly; the Franconian Alps, not over 2,000 feet high, running about half way between those rivers, and being in the cast connected with the Fichtel mountains, of a little over 3,000 feet of elevation, and the Bavario-Bohemian mountain forests. This tract is very fertile in the valleys, and more in the mountains, but everywhere and poor in the mountains, but everywhere prosperous from the energy, enterprise, and activity of its population, of which one-third and more live in cities; Nuremberg, Anspach, Fürth, Bamberg, Baireuth, Regensburg, Nord-vol. II.—48

lingen, Würzburg, Aschaffenburg, Ochsen. Rothenburg, Donauwörth, and many otherch being lively, populous, and in part celebrated of old, full of industry, commerce, and education—although the latter is more hindered than fostered by the government. The population of this region is about half Protestant, the Catho-lics generally inhabiting the fertile valleys, the Protestants the poorer uplands and industrial cities. The agriculture is progressive; beside the common cereals, wine, hemp, flax, hops, dye stuffs, tobacco, first-rate fruit, wool, excellent beef cattle, fowls, beeswax and honey, are largely produced. The mineral resources are here very limited, the mountain formation being to a large extent explorate of lime and being to a large extent carbonate of lime and quarry sandstone, and producing scarcely any thing but the celebrated lithographic stones of Solnhofen, the mineral waters of Kissingen and Brückenau, and some very fine coal.—From the Main to the northern frontier, which in some places reaches to the crest of the Thuringian places reaches to the crest of the Intringual mountain forest, the Rhon and Spesshart mountains, the land is clevated, though nowhere much over 2,000 feet, with fertile valleys sending their waters down to the Main, and only the Saale, belonging to the system of the Elbe, breaking through the mountains to the northward. This region partakes of the general character of that south of the Main, but is less copulous and has favor cities and Protestantism populous, and has fewer cities, and Protestantism everywhere in the minority.--The Rhenish or lower Palatinate beyond the Rhine is a low and very fertile plain along that river. The western portion, however, is mountainous, and rises to 2,000 feet; it is a very rich tract, with extensive agricultural and industrial products, few tensive agricultural and industrial products, few cities and many towns; wine, tobacco, salt, and coal furnishing the principal articles of export. Among the articles of export from the kingdom in general, are Bavarian beer, brewed to the highest perfection in Munich, Nuremberg, and Bamberg, and consumed in vast quantities in the country itself; the plumbago crucibles of Passau, exported all over the world; the products of the glass factories, rivalling those of Bohemia: the optical instruments from Fraun-Bohemia; the optical instruments from Fraunhofer's establishment in Munich, probably the most renowned in the world; wooden tools and toys from Nuremberg and vicinity: the gold, silver, and plated composition fabrics of Augsburg and Nuremberg; the gypsum and marble of Franconia; live cattle, leather, hides, flax and hemp, hops, and dye stuffs. Much is done at present to stimulate the extensive production of taxtile and incompleties. The total appropriate the stuff of textile and iron fabrics. The total exports exceed the imports by some millions of florins. exceed the imports by some millions of norms,—
There are the following railroads in the kingdom: Hof-Nuremberg, Augsburg-Munich, from
the Saxon frontier to the capital, 250 miles;
Augsburg-Lindan, to the south-western frontier, 50 miles; Augsburg-Ulm, 50 miles; Bamberg-Würzburg, 70 miles; Ludwigshafen-Bexbach, in the Palatinate, 20 miles; while some
hundred miles more are projected.—Of the 8
universities of the country, those of Munich and

great patron of the arts, which he fostered by the expenditure of immense sums of money. This prince also supported the Greek insurrection against the Turks, and secured the independence of Greece, and succeeded in having his son Otho appointed king of that country.—On the other hand, the popular history of Bavaria is highly creditable to the Franconian and Swabian tribes. The Boloarian appears in history only twice to advantage, during the peasants' war in 1524 and '25, when Saltzburg was one of the centres of the armed revolution was one of the centres of the armed revolution of the peasants, and a short time after the refor-mation, when the same portions of the country became so earnestly addicted to the Protestant faith, that 2 centuries of oppression could only lead to a great emigration of the Saltzburg Protestants (in 1782) to various portions of Prussiand to America, where they settled in the Carolinas, Georgia, and Virginia. The Franconiana, however, after their great feat of founding the Franconian empire, and giving to Germany her later political existence, frontiers, and constitution, became the founders of cities with their free citizens, commerce, trades, and arts all along the Main, Rhine, and their tributaries. When after the crusades the great comtaries. When after the crusades the great commercial intercourse between the Orient and Occident led to the stupendous growth of Venice, Milan, and Genoa, the enterprising citizens of Augsburg and Nuremberg became the commercial mediators of the world, exchanging the produce of the northern and western countries with those of the Orient, and amassing immense wealth. Not satisfied with trading, they became manufacturers, opened mines, built roads, made inventions, and fostered the fine arts. The Swabians were not behind in this mighty progress, and while the Franconians invented looms, and while the Franconians invented looms, pocket watches, the alloying of bronze, glass painting and grinding, cannon founding, and printing, the Swabians successfully cultivated the highest style of Gothic architecture, and excelled in poetry. The Fuggers in Augsburg, the Tuchers in Nuremberg, the Birkheimers and other patrician citizens were renowned all over the world; emperors and princes may all over the world; emperors and princes married their daughters; they were at the head of every industrial enterprise, and a new artistic every industrial enterprise, and a new artistic and scientific culture sprang up around them. The Franconian school of painters produced men of the rank of Albert Durer, Lucas Cranach, and Holbein; bronze founding was developed into a new plastic art, in which Peter Viscoher excelled. The Minnesingers and later the Mastersingers had their original home in Franconia and Swabia. Here originated the idea of a confederation of the free commercial cities all over Germany in the celebrated Hansa, which by their standing armies broke down the predatory nobility, ruled the northern seas, and antiquated the old feudal institutions. Here in the peasants' war, the first great combined revolutionary movement of the German peasants against the authority of the nobility and clergy took place, and the first declaration

of human rights was offered, a movement which might have been successful, and would have led to a reorganization of the German empire and national unity and independence, but for the opposition of Luther and his co-workers in the reformation. Here the reformation found its southernmost stronghold. Many of the great battles of the 30 years' war were waged in this part of Bavaria, as those of Angsburg (1631) and Furth (1632). This war, however, and still more the discovery of the new commercial route to India, and of America, which transferred the world's trade to the Atlantic shore, broke down the greatness of the free cities of Franconia and Swabia. However, Nuremberg, true to her ancient spirit, was the first city of Germany to build a railroad, though only of 5 miles' length, to Furth, in 1833. In the revolution of 1848 and '49, a marked contrast was to be observed between the energetic Franconians and the slow movements of Bavaria proper. The Rhenish Palatinate was in open rebellion for the new German constitution of Frankfort on the Main and even for republicanism, and would have been lost to the Bavarian kings, but for Prussian intervention. Since then Bavaria has followed the general conservative and absolutist tendencies of European politics.—A new and comprehensive work on this country is in course of preparation by the most eminent Bavarian scholars under the auspices of the

present king, Maximilian II.

BAVAY, a canton, commune, and town of France, in the department of Nord. The town occupies the site of the ancient Bagacum or Baganum, a military post of considerable importance under the Romans, and until the end of the 4th century, the capital of the Nervii. The remains of an aqueduct, an amphitheatre, and some ruined fortifications, are among its relics of the past, and it is the point of union of 7 still existing Roman roads, called the Chaussies de Brunohaut. Pop. of the canton, in 1856, 14,489, of the town and commune, 1,660.

BAVOUX, FRANÇOIS NICOLAS, a French jurist,

BAYOUX, François Nicolas, a French jurist, born at St. Claude, department of Jura, died at Paris, Jan. 28, 1848. Under the empire, he became law professor at Paris, and a judge of the tribunal of the Seine. He was at first retained in this double capacity on the return of the Bourbons, but having been bold enough to profess liberal principles, his lectures were interdicted, and he was called to answer for his doctrines before a superior court. He was acquitted, and the liberal party then elected him to the chamber of deputies. When the revolution of July, 1830, occurred, he was among its most ardent promoters, and accepted for a while the post of prefect of police, which he soon exchanged for the more quiet office of councillor in the court of accounts. The final result of the revolution was to him a bitter disappointment, and when re-elected by the department of Jura, he took his seat among the opposition deputies, who attempted to resist the encroachments of the executive power. He did not live long

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honorable mention among the philosophers of the Georgian era. He left behind him many unfinished treatises. As a student he was indefatigable, spending whole nights in literary toil. His disposition was gentle, his spirit was reverent, and his habits were frugal. Baxter was married in 1724, and had for issue a son and 3 daughters. His wife survived him for several years.

and 8 danghters. His wife survived him for several years.

BAXTER, Edward, a Manchester merchant, born 1779, died 1856, noted for the philanthropy of his life and for his generous support of the cause of civil and religious liberty. At the crisis of the reform bill he brought up the memorable address of the citizens of Manchester to Lord Grey, and urged upon the duke of Wellington the necessity of reform. The first seat in parliament for the new borough of Manchester was offered to him in reward of his services, but he proposed to substitute the name of his friend Mark Phillips for his own, and preferred to keep shoof from the nerliamentary sense.

to keep aloof from the parliamentary arena.

BAXTER, RIGHARD, an eminent English nonconformist clergyman and theological writer,
born Nov. 12, 1615, at Rowton, a small village of Shropshire, died in London, Dec. 8, 1691. His means of early education were limited, and the austere morality of his home led him to dislike the license of the masters under whom he stud His early bias was toward religious meditation and to exercises of piety; and this bias was confirmed by his research in the library of Mr. Wickstead, chaplain of the Ludlow council. A brief trial of life at court only fixed his resolve to become a preacher; and after a short interval of teaching during which his preserve interval of teaching, during which his prepara-tory studies were diligently prosecuted, he was ordained at Dudley, at the age of 23. Two years later, he became the minister of the important town of Kidderminster, where he was held in high esteem by the most eminent citi-zens, notwithstanding his openly expressed ob-jections to taking the ecclesiastical oath. In the civil wars which soon after broke out, he took sides with the parliament, was appointed to be chaplain in Whalley's regiment, and led for some years an unsettled life. The physical weakness which separated him from the army probably saved him from the extreme views of probably seven him from the extreme views of policy to which many of his party were drawn. He maintained his loyalty, had no sympathy with the regicides, denounced the assumption of supreme power by Cromwell, and advocated the return of Charles II. to his father's throne. In return for his services to the cause of legitimacy, he was made one of the chaplains of the restored monarch, and was offered a bishopric, which his conscientious scruples about conformity compelled him to decline. His favor with the king, however, could not shield him from persecution; and though honored with some important ecclesiastical trusts, he was endangered and troubled by these very honors. He was sometimes prohibited from preaching, accusations of heresy were multiplied against him. he was ruined in property by the financial meas

ures of the government, and excessive intellectual labor so wore upon a feeble and nervous tual labor so wore upon a feeble and nervous frame, that his life was one of almost constant suffering. After numerous arrests, he was brought at last, at the age of 70, before the tribunal of Judge Jeffreys, and received from that magistrate the treatment and the sentence which criminals in that court usually found. A fine was imposed far beyond his ability to pay, with the alternative of perpetual imprisonment. The crime was that he had permitted some anti-episcopal sentiments to appear in his paraanti-episcopal sentiments to appear in his paraphrase of the New Testament. After a confinement of months, he was released by the Catholic king, and was able to pass the five remaining years of his life in comparative peace, though frequently distressed by bodily pain. Baxter, though a royalist in his principles, and the advocate of an established church, was yet, in his tastes and temper, sternly Puritan. He represented the religious spirit of the Puritan body better the religious spirit of the Puritan body better than many of its most active leaders. He was a foe to all dissoluteness of life, to all arbitrary measures, to every kind of tyranny and oppres-sion. He loved freedom, and if he advocated monarchy it was a constitutional and instruct monarchy, it was a constitutional and just, not a wilful and capricious monarchy. He sought always to check rebellion; yet does he deserve the reproach upon his grave-stone, that "he was the enemy of kings and bishops, and the very bond of rebels." His principles of opposition to absolute power were uncompromising, and neither fear nor favor could bring him to yield them. He was stoical in his firmness, and his spirit remained the same through all his changes of fortune. Friendship could not turn him from duty, nor could his love of peace set aside his greater love of truth. He was a mediator among the sects; yet his views were so sharp and positive, that he became, in spite of his desire, the founder of a school of theology, which still continues to bear his name. The Baxterians of England occupy the middle ground between the established and the Puritan church, borrowing from the first the doctrine of broad and general grace, and from the second the doctrine of special election. As a sect, however, they have nearly disappeared. Baxter love for theological subtleties, not less than his restless promptness in taking hold of every subject of religious concern, involved him in per-petual controversy. He had many and noble friends, but he made a multitude of enemies, both in church and state. Some blamed him for his moderation; others abused him for his rigid scruples. No great man of his time has been more variously judged, more warmly loved, or more flercely hated. A comparison of authorities warrants, nevertheless, a favorable verdict. Claimed by Puritan writers as almost a saint, Diamed by Puritan writers as almost a saint, Baxter has found equally warm eulogists among the writers of the English church. All now consent that he was essentially a noble man. He was a most industrious and indefatigable author. His works, in every form, from bulky folios to pamphlets, number not less than

iana. With the exception of the grammar, all these works were in octavo form. His editions of the classics were accompanied with gained for him in some quarters great credit and praise, drew down more him to praise, drew down upon him also much sarcasm and ridicule. Later critics do not sustain the high opinion which Gesner expressed of Baxter's Horace, and the erudition which Bentley admired in it could not blind Wieland to the bad taste of the annotations. A subsequent editor turns back upon Baxter the severity with which he had treated Faber's Anacreon. Baxter's pedautry is less annoying in his works on British antiquities, where he was less exposed to the criticism of rivals. He was able in this work to correct many errors and supply many defects in the works of previous writers. He was fond of tracing names to their origin, and was proud to derive his own name from "Baccester," a baker, the sign, among the early Britons, of high no-bility. The fortune which he received from his uncle was sufficient to enable him to prosecute his linguistic studies very far; but this was al-most the only thing which he borrowed from that eminent divine. The tastes and spirit of William Baxter were very different from those of Richard Baxter. The temper of the lover of Richard Baxter. of pedigrees and titles, whose studies were upon such poets as Anacreon, Horace, Juvenal, and Persius, was much more suited to the court of the second Charles, than the straight morality of the non-conformist chaplain.

BAY, in geography, is an arm of the sea extending into the land. It is generally applied to smaller bodies of water than gulfs, of the same general geographical character—though the terms gulf and bay are used sometimes interchangeably, and much to the confusion of geographical science. The word is of Saxon origin, and signifies an angle. It should properly be applied only to arms of the sea which are widest at their departure from the main line of sea coast, or mouth, while gulf should be applied to such bodies of water as the gulf of California, whose width is nearly the same throughout a great part of their extent.

BAY ISLANDS, COLONY OF THE. This name

BAY ISLANDS, COLONY OF THE. This name has been applied to the islands of Ruatan, Barbaretta, Helena, Morat, and Utila, in the bay of Honduras, since their organization as a colony of the British crown, in the year 1850. They were anciently known as Las Guanajas, from Guanaja, now called Barbaretta, which was discovered by Columbus, in his 4th and last voyage, July 30, 1805. It was from this island that he first discovered the coast of the American continent, on which he landed on the 14th of August following, at the point now called Punta Castilla de Truxillo. At the time of their discovery, these islands were occupied by a large population of Indians, considerably advanced in civilization, who kept up a commerce, through the means of large and well-equipped boats, not only with the mainland of Honduras, but also with Yucatan, and, it is

alleged, with Jamaica. For 20 years after the discovery of these islands, they were subjected to repeated attacks from the Spaniards of Cuba, who fitted out expeditions against them for the capture of prisoners for slaves. Their population was in consequence greatly and rapidly reduced. When Cortes reached Truxillo, however, in his famous march into Honduras, the remaining population sent messengers to him to solicit his protection, which he at once extended, driving off the vessels which came for prisoners, notwithstanding they had licenses from the governor of Cuba. For a century subsequent to this event, the islands do not appear to have attracted much attention. power and enterprise of Spain were directed to wider and richer fields. They seem to have power and enterprise of Spain were directed to wider and richer fields. They seem to have been quietly occupied by their inhabitants, and governed by the authorities of the province of Honduras, as dependencies of the port of Truxillo. With the swarming of the freebooters in the sea of the Antilles, they were among the first to suffer. The pirates ran into their fine harbors, and sweeping off the crops, sailed away, to return when in need of supplies or in want of slaves. The annoyance and suffering from this cause finally became so great, that it from this cause finally became so great, that it rom this cause many became so great, that it was proposed to transport the entire population of the islands to the mainland, and thus deprive the pirates of an asylum, and of the means of prosecuting their lawless enterprises on the adjacent coasts. Many reasons were assigned for and against this measure, and much time lost in the discussion, which was only brought to an end by a formidable demon-stration of the freebooters, in 1639. They not only burned the towns on the islands, but comonly burned the towns on the islands, but committed great havoc on the coast of the mainland. At this time, however, the population of the islands had become greatly reduced, and it appears there were but 4 towns of Indians left, viz.: Guanaja, on the island of the same name; Ruata and Masa on Ruatan (then called Guayama); and Utila on the island of Utila. The total population, according to a report drawn up in this year, by Francisco de Avila, governor of Honduras, scarcely exceeded 400. They all spoke Spanish, and there was a church in every town. The islands did not recover from the blow inflicted by the there was a church in every town. The islands did not recover from the blow inflicted by the pirates in 1639, and in 1642 the inhabitants were all taken to the mainland, and established in the vicinity of Truxillo, to the multiplication of which town they own descripted. nicipality of which town they owed service. But the withdrawal of the Indians from the Guanajas did not have altogether the effect de-The excellent harbors, fine climate, and great natural resources of the islands, pointed great natural resources of the islands, pointed them out as a convenient and commanding station for the freebooters; and scarcely had they been evacuated in 1642, when an English detachment of that miscellaneous fraternity took up positions on both Rustan and Gunn-aja. "These positions," says the Spanish chron-icler Juarros, "were exceedingly advantageous to them, and proportionally injurious to

government of Honduras. A number applied for and obtained the requisite permission, and received grants of land. But another portion, for and obtained the requisite permission, and received grants of land. But another portion, incited by one or two white men among them, appealed, as British subjects, to the superintendent of Balize, Col. Macdonald, who immediately visited the island, in the British sloop-of-war Rover, ran down the flag of Honduras, and, seizing Col. Loustrelet and his soldiers, landed them near Truxillo, and threatened them with death if they ventured to return. The with death if they ventured to return. The republic of Central America had meantime been dissolved, and the feeble state of Honduras was left alone to contest these violent proceedings. Her government remonstrated energetically, but without obtaining redress; and finally, in 1844, the British government instructed Mr. Chatfield, consul-general, to apprise the Honduras authorities, that "when Col. Macdonald hauled down the flag of that state in Ruatan, it was by order of the British government." It does not It does not by any means appear, that in thus assuming the responsibility of Macdonald's violence, Great Britain pretended to territorial rights in the islands; and certainly the seizure, made in time of profound peace, could not be understood as conveying a title to sovereignty. At any rate, no act of sovereignty followed on the proceed-ings of Macdonald. Meanwhile the Cayman islanders continued to emigrate to Rustan, and in 1848, the population numbered upward of 1,000. The superintendent of Balize several times attempted to prevail upon the people to accept officers of his appointment, but the latter preferred to choose their own magistrates. There was, nevertheless, a small party in the island favorable to British interests, who were active in their efforts to secure English protec-tion. When visited by Capt. Mitchell, R. N., in 1850, he describes them as "electing their own magistrates, by universal suffrage," and "quite ignorant under what government they are placed." A Mr. William Fitzgibbon was are placed." A Mr. William Fitzgibbon was chief justice, and acting chief magistrate. Some time in this year, a petition was drawn up by the British party, addressed to the governor of Jamaica, asking him to name magistrates and assume supreme authority in the island. Acting on this petition, Capt. Jolly, in H. B. M.'s ship-of-war Bermuda, was sent to the island, who called a meeting of the inhabitants, and declared them under the sovereignty of Great Chief Justice Fitzgibbon protested against the whole proceeding: 1, because, at the public meeting called by Capt. Jolly, only 2 votes were given in favor of British occupation; 2, because the petition sent to Sir Charles Gray contained only the papers of 14 inhabits Grey contained only the names of 14 inhabitants out of 1,800, the remainder being the name of the children attending the schools of the Methodist and Baptist missions; 3, because the occupation was in violation of the treaties between Great Britain and Spain of 1786 and 1814; 4, because it was in violation of the convention between the United States and Great Britain of 1850; and, finally, because

the sovereignty of the islands was incontestably vested in the state of Honduras. In spite of In spite of vested in the state of Honduras. In spite of this protest, however, and backed by the guns of the Bermuda, the authorities appointed by Sir Charles Grey were duly installed in the island. Two years after this occupation, on March 20, 1852, a royal warrant was issued, constituting the islands a colony, under the title of "colony of the Bay islands," of which proclamation was made in Ruatan, by Col. Woodehouse, superintendent of Balize, Aug. 10, 1852.—The proclamation of these islands as a British colony, attracted immediate attenas a British colony, attracted immediate atten-tion in the United States, where it was universally regarded as a direct violation of the convention of July 5, 1850, known as the "Clayton and Bulwer treaty," This convention provides that "the governments of the United States and Great Britain, neither the one nor the other, shall ever occupy, or fortify, or colonize, or assume or exercise any dominion over Costa Rica, Nicaragua, the Mosquito shore, or any part of Central America." The matter was brought under the attention of congress, and the committee of foreign relations of the senate, after a full consideration, reported "that the islands of Ruatan, Bonacca, Utila, &c., in and near the bay of Honduras, constitute part of the territory of the republic of Honduras, and the territory of the republic of Hondras, and therefore form a part of Central America; and, in consequence, that any occupation of these islands by Great Britain is a violation of the treaty of July 5, 1850." Expostulations to this effect were at once addressed by the American government to that of Great Britain, and an elaborate correspondence was carried on through the years 1854-'55-'56, between Mr. Buchanan, American minister in London, and Lord Clarendon, on the subject, but without any satisfac-tory result. The position assumed by Lord Clarendon, that these islands were dependencies of Balize, was, however, effectually overthrown, by the production in parliament of a letter of Sir George Grey, H. M. colonial secretary, dated Nov. 23, 1836, in which the limits and de-Nov. 23, 1836, in which the limits and dependencies of Balize were officially set forth. The Bay islands were not included in these dependencies, nor did the limits of Balize, as defined by Sir George Grey, approach within 60 miles of any of the islands. But not only did the discussions between Mr. Buchanan and Lord Clarendon fail of any approach to a satisfactory adjustment of the question in dispute, but owing to the delinquency of the British minister in Washington, and other distinct questions between the two countries, the controversy regarding the Bay islands and Central America in general, began to assume a menacing form. Great Britain hastily augmented her naval forces on the West India station, and her example was promptly followed by the United States; and, for a time, the peace of the two countries hung upon the discretion of a few naval commanders, acting under orders necessarily vague and indefinite. At this critical moment the government of Honantumn and winter, and asby brown in spring and summer; the tail is nearly as long as the head, with its extremity on the upper surface black, tipped with more or less white; there is a whitish spot on the hinder part of the ear, bordered with black. The soles of the feet are naked, and the ears are not tufted as in the Canada lynx; the latter animal is also consider-ably the larger. The wild cat is a cowardly animal, rarely attacking any quadruped larger than a hare or a young pig; it commits considthan a hare or a young pig; it commits considerable havoc among the chickens and other poultry in its neighborhood, among quails, partridges, and such birds as it can surprise. It shows an affinity to the domestic cat by mewing and purring when in confinement; in the woods during the winter, its caterwauling may be heard for a long distance; it no doubt is occa-sionally crossed by the domestic species in wild localities.
BAY TREE

See LAUREL

BAYADEER (Port. bailadeira, a dancing woman), used exclusively to designate the professional dancing and singing girls of India. By the Europeans in Hindostan the word is seldom used, nautch being the term applied to those exhibi-tions of dancing which are considered indispen-sable to every public or private entertainment. The performers are commonly called nautchnees or nautch-girls. These are recruited from almost every condition in life, but the better sorts are generally derived from good families of the Vaishya and Soodra castes—that is, the -that is, the merchants and laborers. Girls of tender chosen for their beauty, are apprenticed to dhyas, a sort of duenna, who are superannuated nautchnees, and after being inoculated for the small-pox to preserve their beauty, are introduced to a course of severe physical training, and at the same time initiated in all a nautchnee's arts of adornment and meretricious attraction, beside being taught the popular love dit-ties which are invariably called for at every nautch, and the extravaganzas that describe the amorous recreations of the gods. But, first of all, extreme suppleness of joint must be acquired; the prima donna of nautchnees is she who can apply the back of her hand flat against her fore-arm, who in a measure can flex her arm at fore-arm, who in a measure can nex ner arm as the elbow, backward as well as forward, who, bending backward from the waist, can sweep the ground behind her with her hair. By continually carrying jars of water on her head she imparts pride to the movements of her neck, ridelang classes to her eyes, prominence to her sidelong glances to her eyes, prominence to her bust, an undulatory swaying to the carriage of her body, firmness and elasticity to her step. By frequent practice in kite-flying she learns statuesque attitudes and graceful surprises of movement and expression, now running back-ward in a stooping posture, holding the string near the ground, now tripping forward with arms above her head, and upturned eyes and parted lips. The kite-dance is among the most famous and popular of the bayadeer's performances.—Having thus been graduated in the professional place among the sisterhood. If, as is frequently the case, she has been devoted to is frequently the case, she has been devoted to the service of the gods from her infancy, or even from a period antecedent to her birth, by a fanatical father, or by an unhappy mother who only by such a consecration could preserve the life of her unborn child, doomed to the Ganges if it should prove to be a girl, she enters a temple and becomes a devadasce or slave of the gods, taking rank according to the caste of her family, the importance of the divinity to whom she is vowed, and the endowment of the temple; here her duties are to assist at the formal services of ner duties are to assist at the formal services of the shrine, to celebrate in songs, generally li-centious, the famous deeds or extravagant pranks of the god or goddess, to dance before the image, to deck it with flowers, and to at-tend it with dances and songs when it is carried abroad in processions on the stated holidays of the divinity. But all devadasees are excluded from ceremonies of peculiar solemnity, such as funeral sacrifices and suttees. In order to be admitted to the sisterhood of devadasees the nautchnee must not have arrived at marriageable age, and she must be strictly free from any defect of physical conformation. Her consideration and privileges in the temple are determined by her antecedents of caste and family, rather than by her talents. If of good extraction, as of respectable parentage in the merchant casto, ahe is confined to the inner temple, not suffered to go abroad without permission of the priests, and as long as her charms survive she serves the passions of the Bramins. If she has shidten by these they are brought up in their children by these, they are brought up in their mother's calling, the girls to be nautchnees and the boys musicians; in such cases the girls are often called *mecrascens*, inheritresses. The punishment of a devadasce of the superior class, who at any time, before or after her separation from the temple, shall take to herself a low caste lover, is most severe. The devadasees who are recruited from the caste of Soodras or laborers take an inferior rank, but enjoy more freedom; with the exception of the hours when they are on duty in the temples they are at liberty to go abroad, and their earnings are their own. But all, by turns, have their daily duties near the altar, and all must accompany processions; they are also required to attend, when sent for, at the houses of the noble and the wealthy, to assist with their songs and dances at weddings and other feasts. All the devadasces are supported out of the revenues of the temples, from which they receive stated wages in money and rice; those of the inferior, also by far the more numerous class, add to these resources the fruits of an infamous profession. Every temple entertains a troop of 8, 12, or even more devadasees. If the nautchnee be her own mistress, or if her parents or her dhys have no religious preferences, she becomes a kunchenes, or a doominca, or a basecpharnee, terms for the different sorts of dancing girls who wander through the country in troops of 10 or 12, and whose profession

dhya's school, the nautchnee at once assumes her

and 2 mussalches, or torch-bearers; the girls advance to the front, the musicians take their places, in a squatting posture, a little in the rear, and a mussalchee, in the same attitude, plants himself on either side. The instruments consist, usually, of a sort of guitar, strung with steel and brass, and called rena, and 2 tom-toms, or drums. Of the various sorts of vocal composition the principal are the dhoorpud, or heroic song, the holes, which relutes the amours of Krishna in the groves of Vrig, and the tuppa, or popular love ditty. The shrill, sharp key of the women, the monotonous and discordant jangle of the instruments, are intolerably offensive to cultivated ears. The dance is, strictly speaking, a pantomime, explaces, in a squatting posture, a little in the dance is, strictly speaking, a pantomime, ex-plained with music, in which commonly the old story of love and its troubles is related; the tones of the singers, the struggles of vena and tom-tom, the expressions, the gestures of the nautchnee, rise with the predicaments. At first every thing tells of soft delight—tender wooing, homage, adoration, bliss; then come complaints of the treachery of a sister, the per-secutions of a meddling mother-in-law; icelsecutions of a meddling mother-in-law; jeal-ousy succeeds, reproaches for the lover's neglect, imprecations of rivals, fear, hatred, distraction, despair—at which point nautchnees and musicians are alike exhausted by their exertions, and must be relieved by a fresh set, while they retire to fortify themselves with stimulants for renewed struggles. The wear and tear of this constant labor and excitement shatter the constitution and disperse the charms of the nautchsettation and disperse the charms of the nauten-nee in a very few years; the hardiest last but 8 or 4.—The nautch girl's style of dancing is the reverse of that to which the ballet girl de-votes herself; the former never quite raises her feet from the floor, or at most only so much as may suffice to jingle her ankle-bells and foot-chains in concert with the music; shuffling sliding gliding flooting it is with her shuffling, sliding, gliding, floating, it is with her eyes, her neck, her bust, her arms, her waist, that she dances, rather than with her feet; when she advances, it is with a noiseless apparitie. when she advances, it is with a hoiseless apparition; in retiring, she simply grows dimmer. Meantime the mussalchees, by raising or depressing their torches, display her charms of attitude and expression with all the advantage of the most becoming light, and the musicians insite her to her remost skill by vehement approach to the remost skill by the remost skill by vehement approach to the remost skill by the incite her to her utmost skill by vehement applauses, and gestures so energetic as at times to resemble intoxication.—The nautchnee's song resemble intoxication.—The nantchnee's song is often a duet, in which a boy, studiously disguised in feminine attire, takes a part. The voices of these lads are invariably sweeter than those of the women, and they seem to have more of the art of modulation, and a better taste in music.—According to the Abbé Duboia, the musical knowledge of the nautch girls is limited to 83 tunes, of which number but very few of them are familiar with more than half. Of these airs, by far the most popular, and most widely known is the than half. Of these airs, by far the most popular, and most widely known, is the one called Tazu bu Tazu, an extremely pleasing composition, of which Mr. George W. Johnson, of the

supreme court at Calcutta, gives the words and music in his "Stranger in India."—Among the noted bayadeers, the most admired in late years have been Nickee and Alfina. The former long held the rank of a native prima donna in Calcutta. Many of the nautch girls are extravagantly paid, and Nickee, for a time, received 1,000 rupees (\$500) for an evening's performance—that being her regular charge. Alfina was the favorite at Delhi, and the dress and ornaments in which she danced were valued at 40,000 rupees (\$20,000)—her own property. The notorious Begum Sumroo was educated for a nautchnee.

erty. The notorious begun. Cated for a nautchnee.

BAYAMO, or San Salvador, a town in the island of Cuba. It is situated near the river Cauto, 60 miles N. W. of Santiago, and carries on a good trade. The population is variously estimated, from 7,500 to 14,000.

BAYAN KARA MOUNTAINS. On the west-

BAYAN KARA MOUNTAINS. On the western borders of the Chinese empire, in the province of Tsing Hai, commences the great mountain system (in about long. 92° E., and lat. 87° N.) which divides China proper into the northern and southern slopes of one huge water-shed extending from the point above mentioned to the Pacific, and drained by the Hoang-ho, and the Yang-tse-kiang. This mountain system pursues in the main an easterly direction, sending off a spur to the south in about longitude 96° E., and another to the north in longitude 105° E. The western extremity of this broken mountain chain is known as the Bayan Kara range, and extends in an E. S. E. direction from the western extremity above designated to long. 102° E., and lat. 34° N., where the system is broken by the cutting through of the Hoang-ho or Yellow river from the southern to the northern flank of the chain, from which point eastward the system is known as the Peling range. The Bayan Kara mountains then lie on the northern side of the Yellow river, which takes its rise on their southern flanks, about midway of the range, and just at the head of the southern spur called the Yun Ling. The Bayan Kara mountains divide Tsing-hai or Kokonor into 2 nearly equal sections, northern and southern, and constitute the water-shed of a province almost entirely uninhabited, and little known. Their highest peaks, among which may be mentioned the Tchakhare, are covered with eternal snows, and through the entire range the snows only melt in June or July, but the valleys at their feet are fertile, and afford excellent pasturage. The Bayan Kara range connects on the west with the system known as the Kuen-lun, lying to the west of the sources of the two great Chinese rivers, the Hoang-ho and the Yang-tse-kiang.

and the Yang-tse-kiang.

BAYARD, James A., an American lawyer and statesman, born at Philadelphia in 1767, died at Wilmington, Del., Aug. 6, 1815. He was educated at Princeton, studied law in Philadelphia settled and commenced practice in the state of Delaware. He was elected to congress in 1796, and distinguished himself among the supporters

BAYARD

of the federal administration as a legal and constitutional orator. But perceiving in the contest between Mr. Jefferson and Mr. Burr the danger to the success and stability of the government, he was the leader in that policy which resulted in the election of the former to the presidency. He was transferred to the senate in 1804, where he remained until selected by Mr. Madison as one of the commissioners for negotiating a peace with Great Britain under the mediation of the emperor of Russia. He accordingly sailed for St. Petersburg in May, 1813, and in the absence of the emperor, proceeded by land to join the commission at Ghent. He took a

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prominent share in the negotiations, and after the ratification of the treaty, was appointed envoy to St. Petersburg. This appointment he immediately declined, saying he had no wish to serve the administration except when his ser-vices were necessary for the good of his country, at the same time expressing a readiness to co

with Great Britain; but being seized with an alarming sickness, he sailed for home, and only arrived in time to die in the arms of his family. He left an enviable and unblemished name, and is still regarded as the glory of Delaware.—His son, James A., was elected to the U. S. senate from that state in 1850, and again in 1856.

BAYARD, Jean François Alfred, French vaudevillist, born in Charolles, in the department of Saône-et-Loire, March 17, 1796, died Feb. 90, 1883. He studied law and registed

ment of Saone-et-Loire, march 11, 1150, uncu
Feb. 20, 1853. He studied law, and received
his diploma of advocate, but in 1821 wrote
Une promenade d Vaucluse, which was successfully performed at the vaudeville theatre. It
was followed by the Reine de seize ans, brought
out at the Communes and received with great out at the Gymnase, and received with great favor. Bayard united his labors in many instances to those of Melesville, Carmouche, Dumanoir, and Scribe, whose niece he married, and, by his remarkable facility of composition, he became the author of over 200 plays, many of which still keep the French stage, and to which English and American playwrights have a complete edition of

written by Scribe, was brought out at Paris in 1856 BAYARD, PIERRE DU TERRAIL, chevaller known in French history as the chevaller de, known in French history as the chevaller sans peur et sans reproche, one of the purest and most beautiful characters in mediaval history, and in himself a real type of the ideal knight errant of romance. He was born in the chateau

in 8 vols.,

his works,

been greatly indebted. A complete edition of

containing a memoir

of Bayard, near Grenoble, of one of the most noble families in Dauphiny, in 1475, died April 30, 1524. At the age of 13 he became one of the pages to the duke of Savoy, who at that time was an ally of France; and, being observed by Charles VIII., who was struck by his skill and grace in riding, was asked for by that romantic and chivalrous prince, and brought up, as a proparation to being attached to the royal suite, in the household of Paul of Luxembourg, the count de Ligny, where he was indoctrinated in all the

was gained in the Charles VIII., through the wh the kingdom o lost in a few da campaign, wher way back to the tinguished hims a stand of color: this, in the ear XII., he was ag in Italy, when, in the heat of pell-mell with prisoner, but, in valor, was sent vico Sforza, sur his horse and operate in the formation of a commercial treaty Spanish corps, Mayor, who bro ard, in return fo slew him in sin ered the retreat defended the b Garigliano, sing For this feat h his armorial bea spears, with the To describe all fill a volume; was to be won was there. D sault of Brescia a nobleman wh and daughters t in a sacked city enemy alone pr from his wound fore Ravenna, own hand, 2 Sp a retreat of th

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the passes of the dark days of Louis XII., English archers in Flanders, an down, with be allies, Bayard v

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were then held

man and soldier

surprised him, his prisoner; who, in a word, paved the king's way to the magnificent battle of Marignano. In that tremendous conflict, which the old maréchal Trivulciano, the hero of 18 pitched battles, pronounced to be the only battle of men he had ever seen, all the rest being mere child's play, but this an affair of giants, he did prodigies, and more than any or all beside, to change what once seemed a lost fight into a victory. At its close, his sword conferred the accolade on the shoulder of his king. Francis I., who deemed it honor enough king, Francis I., who deemed it honor enough king, Francis I., who deemed it honor enough to take knighthood at the hand of such a paladin as Bayard. The fortunes of war, always proverbially fickle and changeful, were never more so than at this epoch; and when, a short time later, the emperor, Charles V., invaded Champagne, his wonderful defence of the open town of Mézières alone prevented his penetrating to the heart of France, of which, by this exploit, he deserved, as he obtained, the name of savior. His next war was his last. Genoa. His next war was his last. Genoa, of savior. His next war was his last. Genoa, ever an unwilling conquest of the French arms, revolted; and, under the command of Bonnivet, Bayard was sent to reduce the city to obedience, and to chastise the rebels. In the first instance success attended their advance; but, after the surrender of Lodi, fortune again changed, and, foot by foot, the French were beaten out of their conquests. In retreating through the Val d'Aosta the French rear was beaten. Bonnivet was severely wounded and the beaten, Bonnivet was severely wounded, and the safety of the army was committed to Bayard, if he perchance might save it. In passing the river Sesia, in the presence of a superior enemy, as Bayard was covering the rear and pressing hard upon the Spaniards, who were fast giving way before his impetuous charge, he was shot through the right side by a stone from an arque-buse, which shattered his spine. "Jesu, my God!" he cried, "I am a dead man." And then commanding that he should be placed then commanding that he should be placed erect, in a sitting posture, with his back against a tree, which channed to be growing near the field, with his face to the Spaniards, and the cross-hilt of his sword held up as a crucifix before him, he confessed his sins to his esquire, sent his adieux to his king and his country, and died in the midst of weeping friends and admiring enemies. With his fall the battle was ended. The French lost every thing—standards, drums, baggage, ordnance; thenceforth their return to France was not a retreat; it was a flight. turn to France was not a retreat; it was a flight. But there was not a retreat; it was a flight. But there was most grief that they had lost Bayard. His body remained in the hands of the Spaniards; but the Spaniards of that day were the most honorable as they were the bravest of men, whether to friends or foes. They embalmed the mortal remains of the hero, and returned them to the French, unsolicited. A simple hust with a brief and modest I at the control of the hero. A simple bust, with a brief and modest Latin inscription, in the church of the Minorites, in Grenoble, erected in 1823, is his only monumont.

BAYAZEED, or BAYAZID, a decayed town of Armenia, foot of Mount Ararat; pop. in 1857,

4,000. The place is unimportant except as a military post on the Turco-Persian frontier.

BAYEN, PIERRE, a French chemist, born in 1725, at Châlons-sur-Marne, died at Paris in 1798. During the 7 years' war, he held the office of chief apothecary to the French army in Germany, and was afterward employed by the government in analysing the mineral by the government in analyzing the mineral waters of France. He made some valuable ex-periments upon the oxides of mercury. He was amiliar with other important branches of science beside that which he made his speciality, and united a sound judgment with spotless integrity. His writings, entitled Opuscules chimiques, were published in 1798.

BAYER, GOTTLIEB SIEGFRIED, a German philologist, grandson of Johann Bayer, born at Königsberg, in 1694, died at St. Petersburg, Feb. 21, 1788. He displayed from his earliest childhood a singular passion for Chinese and other eastern lawyages. He studied the Continuous and the continuous seatern lawyages. other eastern languages. He studied the C at Berlin, under La Crosse, Arabic at Halle, under Solomon Negri, and at the same time opened a correspondence with the missionaries in India, in order to obtain more information about the Sanscrit and Hindostanee. On the foundation of the academy of sciences in St. Petersburg in 1726, he became professor of Greek and Roman antiquities. Beside his extraordinary knowledge of languages, Bayer was an eminent historical and archeological scholar. His monument is his work published at St. Petersburg in 1730, Museum Sinicum, in que Sinica lingua et literatura ratio explicatur, containing a Chinese grammar, a grammar of the dialect of Shin-Shu, and many interesting notices. on Chinese literature.—Johann, a German astronomer, born at Augsburg toward the end of the 16th century, died in 1660; celebrated for a large work published in 1603, under the title of Uranometria, and republished in 1627 under the title of Calum Stellatum Christianum, which contains a minute description and a catalogue of the contributed much to the the constellations. He contributed much to the simplification of astronomical science, by avoiding the old unintelligible nomenclature and by denoting the stars in every constellation by the let-ters of the Greek alphabet in their order. Bayer was also a good student of law and an able theologian. He was settled as minister over different arishes, and so zealous in his advocacy Protestantism that he was called Os Protestan-The emperor Leopold ennobled him.

BAYEUX, the capital of an arrondissement of the same name, containing 6 cantons, 144 communes, and about 85,000 inhabitants, in the communes, and about 85,000 inhabitants, in the department of Calvados, France. The town, the ancient Civitas Bajocassium or Bajocai of the Romans, contains about 9,000 inhabitants, pleasantly situated in a valley of the river Aure; is the seat of a bishopric, of a tribunal of commerce, and tribunals of primary jurisdiction, with a commercial college, a public library, extensive manufactories of lace, damasks, calico, serges, cotton yarn, a large porcelain factory, paper-mills, many tanneries, dysing, and print-

cusation was disposed of in a masterly manner and crushed under the weight of powerful and witty arguments. A little after he entered the lists against Poiret, the enthusiastic editor and lists against Poiret, the enthusiastic editor and supporter of the visionary Antoinette Bourignon. He argued against his opinions about God, the soul, and evil, in his Cogitationes rationales de Deo, anima et malo. Meanwhile the university of Sedan had become insufferable to Louis XIV., then preparing for the repeal of the edict of Nantes, and was therefore suppressed, notwithstanding the promise given on this point to the duke of Bouillon on the cession of his duchy to France. But the city of Rotterdam. duchy to France. But the city of Rotterdam, anxious to prove that it had not degenerated from her love for science since the age of Erasmus, eagerly offered an asylum in her celebrated school to the Sedan professors; and Bayle was allowed to continue there his philosophical teachings. There he also completed his Pensies sur la comète, a work which he had planned to confute the errors and allay the fears revived confute the errors and allay the fears revived among the people on the appearance of the comet of 1680. This work, published in 1682, at Rotterdam, was eagerly read everywhere, especially in France, although prohibited there by the police. His love for historical studies soon engaged him in another controversy.

Maimbourg, a Jesuit writer of some talent, had given to the public a Historica dy Calcinium. Maimbourg, a Jesuit writer of some talent, had given to the public a Histoire du Calvinisme, in which the reformation and reformers were violently assailed. Bayle undertook to repel his assertions; and in less than 15 days wrote a critical pamphlet, which was at once extensively circulated, reaching its 3d edition in a few weeks. In France, it was ordered to be publicly burned by the hand of the executioner, but was in consequence more eagerly sought for than ever. This effort in the cause of his religious faith occasioned him much trouble and difficulty. Jurieu, the most influential controversialist of the age, had also written a refutation of age, had also written a refutation of Maimbourg's history; but it appeared too late, and, in comparison with that of Bayle, was thought a decided failure. Thence arose, on the part of Jurieu, unfriendly feelings, which were heightened to positive hatred by subsequent circumstances. In 1684, Bayle commenced a literary journal, under the title of Nouvelles de la république des lettres, which was quite successful, but was productive of strife in which Jurieu secretly participated. His anger, howrieu secretly participated. His anger, how-ever, had its full scope, on the publication of Bayle's pamphlet, Commentaire philosophique sur les paroles de l'Evangile: "Contrains-les d'en-trer." This, being published on the occasion of the severe measures of Louis XIV. agains the Protestants, was but an eloquent plea in favor of religious toleration. Jurieu charged Bayle with being Indifferent to religion, in fact, almost an infidel, and, intermixing calumnies with plausible accusations, and actively pursuing his intrigues, while his peaceful opponent contented himself with writing a defence, which he thought conclusive, he so artfully conducted VOL II.—49

this warfare against the unsuspecting philosopher that he finally got the better of him, and had him dismissed from his professorship, deprived of his pension, and, at last, in 1693, forbidden by the common council of Rotterdam to teach publicly. This severity did not disturb the equanimity of the philosopher, although he was entirely dependent on his labors for a living. He then resolved to undertake a work, the project of which he had formed years before, and which was to become his principal claim to renown; we mean his Dictionnaire historique et critique, in which he intended to historique et critique, in which he intended to point out the errors and supply the deficiencies of the most important publications of the same kind. He went to work with eagerness, and, in 1697, the first edition appeared, and had at once an immense success, notwithstanding the defects inevitable in so vast a performance. But the public favor seemed to revive the hatred of Jurieu and some others of his opponents. They were not contented with criticising him bitterly; they arraigned him before the consistory of the Walloon church, who ordered him sistory of the Walloon church, who ordered him to make many corrections and alterations in various important articles. Bayle showed both patience and activity in defending himself, while submitting with respect to the ultimate decision. But this controversy occupied much of his time, and prevented him from improving as completely as he wished the work to which had denoted his life. Between his constant as completely as he wished the work to which he had devoted his life. Between his constant labor and the attacks of his opponents he did not enjoy a moment of rest; so it may be justly said that he died "with his pen in hand." His book did much to enlighten the age in which he lived, and is still readable. He has been called the Montaigne of the 17th century; but, with a similar tendency to skepticism though more insimilar tendency to skepticism, though more interest in the truths he discusses, he does not possess the ease and grace of that inimitable writer. Bayle spent his whole life in working, writer. Bayle spent his whole life in working, and the only relaxation he indulged in was corresponding with his friends, among whom were several of his most eminent contemporaries, Malebranche, Fontenelle, Buckingham, Shaftesbury, Burnet, St. Evremond, Leibnitz, &c. Bayle published the second edition of his Dictionnairs in 1702, but the most valuable editions are those of 1740, at Basel and Amsterdam, both are those of 1740, at Basel and Amsterdam, both consisting of 4 vols. folio. The English edition, by Thos. Birch and Lockman, London, 1734-1741, 10 vols. folio, contains many additions. The most recent is that of Beuchot, Paris, 1820,

The most recent is that of Beuchot, Paris, 1820, 16 vols., 8vo.

BAYLEN, a town of Spain, province of Jaen, at the foot of the Sierra Morena; pop. about 4,500. It commands the road leading from Castile into Andalusia; and it was thus the scene of one of the most important events in the peninsular war. The French general, Dupont, who was in command in Andalusia, while attempting to cross the Sierra, was surrounded by the Spaniards, and in a fit of despair or aberration, surrendered June 20, 1808, with 16,000 excellent troops to the Spaniah gen-

English song-writers. His "I'd be a Butter-fly" had extraordinary popularity in its day, and a ballad, "Oh no, we never mention her," sung by Mrs. Wood (Miss Paton), was as well known and highly esteemed, in its time, as al-most any of Moore's Irish melodies. Of many most any of Moore's Irish melodies. Of many hundred of his songs, few, however, are now remembered. Occasionally, he showed himself capable of writing better things than these ephemera, and some poems of sentiment, in annuals and magazines, were imbued with beauty and grace. Mr. Bayly was author of several successful farces, and of two or three novels, of which "Kindness in Women" was the best. His personal character was amiable, and he appears (from his life, written by his and he appears (from his life, written by his

and he appears (from his life, written by his widow, and prefixed to a posthumous collection of his poetical remains) to have borne prosperity with moderation and reverses with patience. To the last, he fluttered in what is called fashionable society, for which his limited means, latterly, were ill adapted.

BAYLY, THOMAS HENRY, an American statesman, born in Accomac county, Va., in 1810, died June 22, 1856. He graduated at the university of Virginia, was admitted to the bar in 1830, and was for several years a member of the general assembly of the state. He was also a brigadier-general in the militia of Virginia. In 1842 he was elected judge of the circuit superior court of law, an office which he resigned in 1844, when he was elected a representative in the national congress; and by sucsentative in the national congress; and by suc-cessive reëlections he held the latter position till his death. As chairman of the committee on ways and means, he was the leader of the house during many sessions, and was highly respected by men of all parties, as well for his urbanity and dignity, as for his ability. The family home in which he died was established by his ancestors from England in 1666, and it is remarkable that he held just the same public offices that had been filled by his father.

BAYNAM, WILLIAM, an American surgeon, born in Caroline county, Va., in 1749, died Dec. 8, 1814. He completed his medical education in London, where he resided for 16 years, and was long assistant demonstrator to the professor of anatomy and surgery in St. Thomas's hospital. He was probably unsurpassed in his time as an anatomist, and performed on ways and means, he was the leader of the

ed in his time as an anatomist, and performed many remarkable operations. He furnished some excellent preparations in the museum of Cline and Cooper in London, and wrote various

papers for medical journals.

BAYNE, ALEXANDER, a Scotch professor, and writer upon the law of Scotland, born at Logie, in the county of Fife, passed advocate at the Scotch bar in 1714, died in Edinburgh, in June, 1787. The common law of England had been superseded in Scotland, in the 16th century, by the principles of the civil and canon laws, and caudidates for the bar were then accustomed to prepare themselves in foreign universities. Gradually, however, the system of Scotch law came to differ from that of the Roman law, and therefore the university of Edinburgh in 1722 established a professorship for instruction specially in the law of Scotland. Mr. Bayne was appointed to this chair, and by his learning and ability immediately wrought a change in the course of legal study. To his influence is to be attributed the subsequent regulation, requiring candidates to pass examination not only in the civil law but also in the mu-nicipal law of Scotland. In 1726, Mr. Bayne published Hope's "Minor Practicks," a work of great acuteness and learning, which had long remained in manuscript, to which he pre-fixed a discourse on the "Rise and Progress of which had the Law of Scotland and the Method of ing it." He also published a volume of "Notes" for the use of students of Scotch law, and a work on the criminal law of Scotland. BAYONET. This weapon, now gen

This weapon, now generally introduced for all line-infantry, is usually stated to have been invented in France (apparently at Bayonne, whence the name) about the year 1640. According to other accounts, it was adopted by the Dutch from the Malays, who attached their kris, or dagger, to a musket, and introduced into France about the year 1679. Up to that time, the musketeers had no effective weapon for close combat, and consequently had to be mixed with pikemen to protect them from to be mixed with pixemen to produce a closing enemy. The bayonet enabled musketeers to withstand cavalry or pixemen, and thus gradually superseded the latter arm. Originally, it was fastened to a stick for insertion into the barrel of the musket, but as it thus prevented the soldier from firing with bayonet fixed, the tube passing round the barrel was afterward invented. Still, the pike maintained itself for shows half a century as an infantry weapon. for above half a century as an infantry weapon.

The Austrians were the first to exchange it, for The Austrians were the first to exchange it, for all their line infantry, for the musket and bayonet; the Prussians followed in 1689; the French did not do away entirely with the pike until 1703, nor the Russians till 1721. The battle of Spire, in 1703, was the first in which charges of infantry were made with fixed bayonets. For light infantry, the bayonet is now generally replaced by a short, straight and sharp-pointed sword, which can be fixed in a slide on one side of the muzzle of the rifle. It is thus certainly less firmly fixed, but as such infantry are expected to charge in line in exceptional cases only, this drawback is considered to be balanced by the employed.

be employed.

BAYONNE, a city of France, department of Basses-Pyrénées, at the confluence of the Adour and Nive. It is separated into 3 parts, named Great and Little Bayonne, and the suburb of St. Esprit. It is 3 miles from the coest, and 18 from the Spanish frontier at Fontarabia. It is finely situated and has quays and promenades; a mint, theatre, schools of commerce, naval and commercial docks, chamber and tribunal of commerce, distilleries, sugar refineries, and glass works. It exports timber, tar, corks, superior giers, he gradually rose in his profession, until, in 1850, he had attained the rank of lieutenant colonel. In the following year he was put at the head of the first regiment of the foreign legion, and when the Crimean war broke out, the 2 regiments of that legion were formed into a brigade, of which he was appointed commander. At the head of this force he arrived before Sevastopol in Oct. 1855, the very day on which the bom-bardment commenced. The ability which he displayed on that memorable occasion led to his displayed on that memorable occasion led to his being appointed as governor of Sevastopol immediately after the fall of the town, and soor afterward he was raised to the rank of general of division. Subsequently he distinguished himself in the expedition, the result of which was the capture of Kinburn.

BAZANCOURT, JEAN BAPTISTE MARIN ANTOINE LEGAT DE, a French general, born at Valde-Molle (Oise), March 19, 1767, died January 17, 1830; took an active part in the Italian campaigns; distinguished himself and was wounded at the siege of St. Jean d'Acre; fought

wounded at the siege of St. Jean d'Acre; fought in the battle of Austerlitz, and was a member of the court-martial which, on March 21, 1804, pronounced the sentence of death upon the duke d'Enghien. In 1806 he was appointed commander of the legion of honor, and in 1808 proported to the proper of horizontal while promoted to the rank of brigadier general, while in the same year he was created baron of the empire, and went as commander to Hamburg with a mission connected with the continental

blockade. He withdrew from service in 1815. BAZAR-KHAN, a town of Asia Minor, in the pashalic of Anatolia. It is the great mart for all the villages in its vicinity, and thence derives its name.

BAZARD, AMAND, the founder of carbona rism in France, and one of the first promoters of St. Simonism, born Sept. 19, 1791, at Paris, died at Courtry, July 29, 1882. He first distin-guished himself as a member of the national guard in the defence of Paris in 1815; and soon after the restoration secretly but actively engaged in politics. In 1818 he became the principal editor of *L'Aristarque*, an opposition paper; and when, on the assassination of the duke of Berry, the freedom of the press was restricted, he published many pamphlets to dif-fuse liberal opinions among the people. At the same time, he founded the lodge of les amis de la vérité, pursuing his political purposes under the cover of freemasonry; a little later, aided by some friends, he organized carbonari societies which soon numbered more than 200,000 members. He took part in the many conspiracies which tended to the overthrow of the Bourbon monarchy. On the discovery of the Béfort military plot, he was outlawed, but succeeded in escaping. He afterward became one of the first disciples of St. Simon, and in 1825, one of the contributors to the *Productur*. He soon gained an ascendency among his new associates by his experience and comprehensive mind. In 1828, when the St. Simonians commenced ex-pounding their doctrines in public meetings,

Bazard was, with Enfantin, the acknowledged head of the new school; he was conspicuous among the speakers and debaters, and greatly contributed, especially after the revolution of July, 1830, to give credit and popularity to the doctrines, which were, by his advice, strictly confined within the limits of philosophical theory. But this restriction was far from agree-sple to the more extent members of the restriction. able to the more ardent members of the party; and St. Simon's economical doctrine was converted into a religious creed, which rejected the ties of marriage. This was too much for Bazard, who was a married man and desired a social reform, but not the destruction of morality. Consequently, a schism broke out in 1881, and Bazard published a manifesto in which he charged Enfantin and his followers with planning a new social order founded upon corruption, licentiousness, and bad faith. He at the same time proclaimed himself chief of the new St. Simonian hierarchy; but this appeal was not heeded, the great majority of the St. Simonians faithfully adhering to his former colleague, as the faithfully adhering to his former coneague, as me true leader of the new church. Being thus forsaken and deeply aggrieved at the bitter debates which had taken place in private interviews with his former friends, Bazard became disheartened, sunk under the burden, and died; leaving a name honored even by those whom his conscience had constrained him to desert.

RAZAS a town of France, dengriment of

BAZAS, a town of France, department of Gironde, 83 miles S. S. E. of Bordeaux. It is very ancient, having been the chief town of the Vasates, one of the most powerful Gallic tribes in Novempopulania. It gave birth to the Latin poet, Ausonius; was also, for a lengthened period, the residence of the dukes of Gascony, and the seat of a bishopric. The ancient cathedral, now the parish church, is a remarka-ble monument of Gothic architecture. From ble monument of Gothic architecture. From its name, the surrounding district was called Bazadois. Bazas is now an ill-built place, with an imperial saltpetre manufactory, glass-works, and manufactories of drugget. Pop. 4,515.

BAZEEGURS, a sort of gypsy tribe in Hindostan. They wander about the peninsula, trading in trinkets, performing tricks of juglery and agility and sometimes curing the

trading in trinkets, performing tricks of jugglery and agility, and sometimes curing the sick by secret medicines. They are Mohammedans by profession, but their worship seems entirely peculiar and irregular.

BAZHENOFF, Vassili Ivanovitch, a Russian architect and first vice-president of the academy of fine arts at St. Petersburg, born at Moscow, March, 1737, died at St. Petersburg, Aug. 2, 1799. He studied at the architectural school and university of his native city, and subsequently at the academy of fine arts at St. Petersburg, and under Duval, at Paris, St. Petersburg, and under Duval, at Paris, where he received a diploma of merit, which, as the honor had never before been conferred upon any Russian artist, induced the St. Petersburg academy to promote him to the rank of adjunct, and to send him to Rome. On his return home in 1765, he was employed by Catharine in re-building the Kremlin, but the project was

inent in banking and other financial concerns. During the Mexican war, he was sent to Mexico by President Polk as an agent to arrange a treaty of peace. The negotiations, however, when near of peace. The negotiations, however, when near to a satisfactory conclusion, were broken off by a false report that Santa Anna had annihilated the army of General Taylor in the north of Mexico. Mr. Beach has recently retired from business, and resides in his native town of Wallingford.

BEACHY HEAD, a lofty cliff in the British channel, on the coast of Sussex, between Brighton and Hastings. A light-house has been erected on it 285 feet above the sea.

BEACON a conspicuous mark or signal

BEACON, a conspicuous mark or signal either used to alarm the country in case of invasion, or as a guide to mariners. The alarm beacon was usually fire placed on the tops of high hills, the flames of which could be seen at a great distance by night, and the smoke by day. They were in great use for rousing the border on an invasion either by Scotch or English.

A sheet of fiame from the turret high Waved like a blood fiag on the sky, All glaring and uneven; And soon a score of fires I ween From height and hill and cliff were se

beacon to mariners is either a landmark erected on an eminence near the shore, or a float-

erected on an eminence near the snore, or a noating signal moored in shoal water.

BEACONSFIELD, a declining market town in Buckinghamshire, England, 24 miles W. by N. of London. It is situated on high ground, and its name is supposed to have originated from a beacon once set up there. The remains of Edward Brake up there. from a beacon once set up there. The remains of Edmund Burke, who resided at Gregories in this parish, are deposited in the parish church; and the churchyard contains a monument in honor of the poet Waller, to whom the manor belonged, as it still does to his descendant. It has fairs of diminishing importance.

BEADLE (Sax. bydel, a crier), an English parochial authority, servant of the church wardens, who parades himself in cocked hat, knee breeches, rod of office, and gold lace, keeps order in the church and churchyard, and performs various minor services. Rural deans had formerly their beadles to summon the inferior

formerly their beadles to summon the inferior clergy to visitations, and hence, probably, the present ecclesiastical aspect of the office. The beadles in the universities of Oxford and Cambeades in the universities of Oxford and Cambridge bear maces before the chancellor or vice-chancellor in procession. In Oxford there are 8 esquire and 8 yeomen beadles, attached to the respective faculties. The esquire beadles at Cambridge collect fines and penalties, and summon the members of the senate to the chancellor's court.

BEADS, in the Roman Catholic church, a chaplet used in saying the rosary, a series of prayers to the Blessed Virgin. This chaplet consists of 165 beads, 15 of which are larger than the rest, and being strung at equal distances, divide the remaining 150 into 15 decades. The apostles' creed is recited at the coramencement of the rosary; the Lord's prayer is said at every large bead, the Ave Maria at every small one, and the doxology at the end of every decade; while during the recital of each of the 15 divisions, the mind is directed to some prominent event in the history of the Savior or the Blessed Virgin, such as the annunciation, nativity, crucifixion, resurrection, assumption, &c. A smaller chaplet, † the length of that above described, but like it in other respects, is in more general use. The beads are made of various materials, such as wood, glass, ivory, bone, cocoa-nut shell, and sometimes of gold, silver, or precious stones. The devotion of the rosary is said to have been introduced by St. Dominic in the 18th century, but the Benedictines, as early as the 6th cen tury, appear to have employed a string of beads tury, appear to have employed a string of beads upon which they said certain prayers while at work. The festival of the rosary, instituted by Pope Gregory XIII., in 1873, to commemorate the victory of Lepanto, is celebrated throughout the Catholic church on the 1st Sunday of October.—The worshippers of the grand lama in Asia make use of a kind of chaptet, and the Mohammedans have their beads of holy earth from Mesca or Medina which they holy earth from Mecca or Medina, which they pass through their fingers while reciting the 99 qualities of God mentioned in the first part of the Koran.

of the Koran.

BEAGLE (canis sagax), a bound of the smallest size, formerly used for hunting hares, but now kept solely for the purpose of rabbit shooting. In old times, when a fox-hunt lasted from morning to night, and the excellence of the run was reckoned by the number of hours consumed in it, provided that there was a kill at the end, hare hunting with beagles was considered a fine sport. It was an especial favorite with young people, who could readily keep up with the diminutive pack on their ponies, which, indeed, it was no difficult matter for an active pedestrian to do, with no aid beyond his own pedestrian to do, with no aid beyond his own limbs. At this time, from 10 to 12 inches was the legitimate height of a beagle, the nearer to the smaller standard the better; and the perfection of a pack was to be exactly matched in size, and so nearly matched in speed that, while running in full cry, a sheet would cover the whole, without a single straggler. The true beagle was of the exact type of the great southern hound, slow but of the most exquisite powers of scent, of which Shakespeare wrote the most perfect description that exists—

My hounds are bred out of the Spartan breed, So flewed, so sanded, and their heads are hun With ears that sweep away the morning dew. Crook-kneed and dew-ispped like Thessalian h Slow in pursuit, yet matched in tone, like bells Each under each, &c.,

all of which points refer exactly to the tiny beagle. Their color is usually black, white, and tan pied, and sometimes blue-mottled, which, for the hare-hunting beagles, was held the choicest. Since they have been used for rabbit-shooting, their size is still further reduced, and in their coloring pure white or white and in their coloring, pure white, or white with black and tan ears and eye-patches, has, if any thing, the preference. Modern rabbit-

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